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it-processing: Minimum Match 0%
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Gapop 10.0 , Gapext 1.0
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_6/ptodata/2/pubpna/US10A_PUBCOMB.8eq:*
_6/ptodata/2/pubpna/US10B_PUBCOMB.8eq:*
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                  US-09-833-381-910
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#### ALIGNMENTS

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; LENGTH: 21
; TYPE: DNA
; ORGANISM: HUMAN
; PEATURE:
; OTHER INFORMATION: antisense TRPM-2 ODN
US-09-944-326-4
                                                                           Query Match
Best Local Similarity
Matches 21; Conserv
                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
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                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 09/913,325
PRIOR FILING DATE: 2001-08-10
NUMBER OF SEQ ID NOS: 14
                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 60/121,726 PRIOR FILING DATE: 1999-02-26
                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/944,326
CURRENT FILING DATE: 2001-08-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Rennie, Paul S.
APPLICANT: Miyake, Hideaki
APPLICANT: Nelson, Colleen
TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY
FILE REFERENCE: UBC. P-020-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Gleave, Martin
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1 CAGCAGCAGAGTCTTCATCAT 21
                                  1 CAGCAGCAGAGTCTTCATCAT 21
                                                                           Conservative
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                                                                                            100.0%; Score 21; DB
100.0%; Pred. No. 1.6;
                                                                         0;
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                                                                                                              DB 10;
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RESULT 2 US-09-967-726A-4

4, Application US/09967726A

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9-825-294-15/c
quence 15, Application US/09825294
tent No. US20020004491A1
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ORGANISM: human
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RRENT APPLICATION NUMBER: US/10/080,794
RRENT FILING DATE: 2002-02-22
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IOR APPLICATION NUMBER: 60/121,726
IOR FILING DATE: 1999-02-26
IOR FILING DATE: 1999-03-26
IOR FILING DATE: 2001-08-10
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TLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TLE OF INVENTION: Oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LICANT: Rennie, Paul S.
LICANT: Miyake, Hideaki
LICANT: Miyake, Hideaki
LICANT: Monia, Colleen
LICANT: Monia, Brett P.
LICANT: Monia, Brett P.
LE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
LE OF INVENTION: HAVING 2'-O-(2-METHOXY) ETHYL MODIFICATIONS
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                                                                                                                                                                                                                                                                                                                                                                                                              ID NO 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 09/944,326 FILING DATE: 2001-08-30
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Miyake, Hideaki
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US-10-212-677-15/c

GENERAL INFORMATION:

Chenau

Ruth A.

Sequence 15, Application US/10212677 Publication No. US20030129192A1

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, FEATURE:
, NAME/KEY: misc feature
, LOCATION: 333 -
, OTHER INFORMATION: n = A,T,C or G
US-09-970-966-15
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                                                                                                                                                                                         Matches
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Best Local Similarity
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Best Local Similarity 100.0%; Pred. No.
Matches 21; Conservative 0; Mismatch
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CURRENT FILING DATE: 2001-10-02
NUMBER OF SEQ ID NOS: 215
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APPLICANT: Fling, Steven P.
APPLICANT: Xu, Jiangchun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
FILB REPERENCE: 210121.484C6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REPERENCE: 210121.484C5
CURRENT APPLICATION NUMBER: US/09/825,294
CURRENT FILING DATE: 2001-04-03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: FastSEQ for Windows Version 3.0
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79 CAGCAGCAGAGTCTTCATCAT 59
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                                                                                    equence 2524, Application US/09918995
ublication No. US20030073623A1
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IITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
IITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/918,995
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bblication No. US20030073623A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TUMBER OF SEQ ID NOS: 38054
                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAMB/KBY: misc_feature
LOCATION: 333
COTHER INFORMATION: n = A,T,C or G
10-212-677-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOPTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/212,677
                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: n = A,T,C or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENGTH: 461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LE REFERENCE: 20411-756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED B OF INVENTION: FROM VARIOUS CONA LIBRARIES
                                                                                                                                                                                                                                                                                                                      Local
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                                                                                                                                                                                                                                                      1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               396
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Similarity 100.0%;
21, Conservative 0
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Pred. No. 2
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JS-09-918-995-12511/c

Sequence 12511, Application US/09918995 Publication No. US20030073623A1 GENERAL INFORMATION:

APPLICANT: HYSEQ, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756

CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076

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; OTHER INFORMATION: n = A, T, C or US-09-918-995-32177
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                                         Matches
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SEQ ID NO 32177
                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Hyseq, I
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Publication No. US20030073623A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 2524
                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 38054
                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Hyseg, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756
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                                                                                                                                                                                                                       TYPE: DNA
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LOCATION: (1)...(462)
OTHER INFORMATION: n = A,T,C or
                                                                                                                                                             NAME/KEY: misc_feature
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ORGANISM: Homo sapiens
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1 CAGCAGCAGAGTCTTCATCAT 21
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                                                          Similarity
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                                       Conservative
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                                                    Score 21;
Pred. No. :
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                                     Mismatches
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                                                                     DB 11; Length 465;
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ЛТ 12
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blication No. US20030073623A1
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LOCATION: (1)...(491)
OTHER INFORMATION: n = A,T,C or G
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blication No. US20030073623A1
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URRENT FILING DATE: 2001-07-30
URRENT FILING DATE: US/09/235,076
RIOR APPLICATION NUMBER: US/09/235,076
RIOR FILING DATE: 1999-01-20
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Q ID NO 17455
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ZATURE:
                                                                                                                                                                      LE REFERENCE: 20411-756
RRENT APPLICATION NUMBER: US/09/918,995
RRENT FILING DATE: 2001-07-30
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LOCATION: (1)...(490)
OTHER INFORMATION: n = A,T,C or G
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                                                                                          PTWARE: FastSEQ for Windows Version 3.0
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TLB OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
TLB OF INVENTION: FROM VARIOUS CDNA LIBRARIES
                                                                          ID NO 31156
                                                                                                                                                                                                                         LICANT: Hyseq, Inc.

LE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED

LE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B REFERENCE: 20411-756
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                                                                                                                                 APPLICATION NUMBER: US/09/235,076 FILING DATE: 1999-01-20
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21; Conservative
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Pred. No.
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Pred. No.
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RESULT 14
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                                                                                                                                                 SOFTWARE: PERL Program SEQ ID NO 214
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                                                                                                                                                                                                                                                                                                                                                                                      Sequence 214, Application US/10133013
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                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/287,067
PRIOR FILING DATE: 2001-04-27
NUMBER OF SEO ID NOS: 271
                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/133,013
CURRENT FILING DATE: 2002-04-25
                                                                                                                                                                                                                                                               APPLICANT: Bandman, Olga
APPLICANT: Cocks, Benjamin G.
TITLE OF INVENTION: GENES ASSOCIATED WITH VASCULAR DISEASE
FILE REFERENCE: PA-0049 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 09/516,448 PRIOR FILING DATE: 2000-02-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/833,381
CURRENT FILING DATE: 2001-04-11
                   FEATURE:
NAME/KEY: misc_feature
OTHER_INFORMATION: Incyte ID No. US20030166903A1 474437.17
                                                                                                                                                                                                                                                                                                                                      APPLICANT: Astromoff, Anna
                                                                                                                                                                                                                                                                                                                                                                          ublication No.
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TYPE: DNA
ORGANISM: Homo sapiens
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                                                                                                 ORGANISM: Homo sapiens
                                                                                                                   TYPE: DNA
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NAME/KEY: misc_feature
AME/KEY: unsure
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US20020132090Alel Nucleic Acid and Protein Homologs
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Pred. No.
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Pred. No. 2
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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score
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seq length: 2000000000
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Match
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US-09-659-791A-13
US-09-659-791A-13
US-09-659-791A-12
US-08-950-925-1
US-08-951-858-1
US-08-961-858-3
US-09-089-593-1
US-08-961-858-3
US-09-089-593-3
US-08-991-380-5
US-09-368-819A-1
US-08-991-380-3
US-08-991-380-3
US-08-991-380-3
US-08-991-380-3
US-08-991-380-3
US-08-980-060-9
US-08-980-060-1
US-08-980-060-1
US-08-980-060-1
US-08-980-060-1
US-08-980-060-1
US-08-980-060-1
US-08-980-060-3
US-08-980-060-3
US-08-980-060-1
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PCT-US95-02303-14
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Sequence
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	2 :	Patent No. 5340934	5	φ.		Sequence 95, Adol	148.		56,	56	56, 7	393		Sequence 1242, Ap	2819	Sequence 12, Appl	Sequence 6, Appli	

### ALIGNMENTS

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STRADDEDNESS: single;
TOPOLOGY: linear;
MOLECULE TYPE: cDNA
US-08-485-657A-19
        Matches
                      Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                    ATTORNEY AGENT INFORMATION:

NAME: No. 5942389nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 93,3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 181 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
COMPUTER: IBM PC com
                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,657A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Genes and Genetic Elements Associated TITLE OF INVENTION: with Sensitivity to Cisplatin NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Kirschling
APPLICANT: Gudkov, As
APPLICANT: Roninson,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                        TELEFAX: 312-913-0002
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  ch 100.0%;
1 Similarity 100.0%;
21; Conservative 0
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5942389
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Gudkov, Andrei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Floppy disk
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                                                                                                                                                                                                                                                                                                                                                    Kevin B
                                                                                                                                                                                                                                                                                                              93,354-N
  Score 21; DB 2
Pred. No. 0.96;
Mismatches
                                    DB 2; Length 181;
  Indels
0;
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Gaps

73 CAGCAGCAGAGTCTTCATCAT 53

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TITLE OF INVENTION: GEN
TITLE OF INVENTION: wit:
NUMBER OF SEQUENCES: 25
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy d
                                                                                                                                                                quence 18, Application PC/TUS9502303 ENERAL INFORMATION:
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US95-02303-18/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOPTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/366,380
FILING DATE:
CLASSIFICATION:
                                                                                                                                                  PPLICANT:
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                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 181 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: No. 6541603nan, Kevir
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IOR APPLICATION DATA:
APPLICATION NUMBER: 08/199,900
PILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
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21; Conservative
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    McDonnell Boehnen Hulbert & Berghoff
    South Wacker Drive, 32nd Floor

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PatentIn Release #1.0, Version #1.25 (EPO)
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                                                                                                        Genes and Genetic Elements Associated with Sensitivity to Cisplatin
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US-08-485-657A-14
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                                                       Matches
                                                                     Query Match
Best Local :
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                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA
                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: NO. 5942399nan, Kevin
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION: TELEPHONE: 312-913-0001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ITLE OF INVENTION:
                                                                                                                                                       STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/0 FILING DATE: 07-JUN-1995 CLASSIFICATION: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                           TOPOLOGY:
                                                                                                                                                                     TYPE: nucleic acid
                                                                                                                                                                                                                                           TELEFAX: 312-913-0002
                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM:
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                                                                     ocal Similarity
                                                                                                                                                                                    ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    73 CAGCAGCAGAGTCTTCATCAT 53
                                                       21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             60606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chicago
Illinois
                         CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Application US/08485657A
                                                                                                                                                                               195 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B: McDonnell Boehnen Hulbert & Berghoff
300 South Wacker Drive, 32nd Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181 base pairs
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                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gudkov, Andrei
                                                                                                                                                                                                                                                                                                                                                                                                                 B: Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kirschling, Deborah J
                                                                                                                                           linear
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                                                                  100.0%;
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100.0%; Pred. No. 0.96;
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                                                      0;
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                                                                   Pred.
                                                                               Score 21;
67
                                                      Mismatches
                                                                     NO.
                                                                  0.97;
                                                                               DB 2; Length 195;
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Query Match
                                                         TITLE OF INVENTION: Genes and Genet.
TITLE OF INVENTION: with Sensitivit,
NUMBER OF SEQUENCES: 25
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                  ·US95-02303-14/c
                                                                                                                                                                                                 Quence 14, Application PC/TUS9502303
ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 195 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                           SOFTWARE: Patentin Rel
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Ploppy disk
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APPLICATION NUMBER:
FILING DATE:
RMATION FOR SEQ ID NO:
             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                    local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: No. 6541603nan, REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PLICANT: Roninson, Igor B
TLB OF INVENTION: Genes and Genetic Elements Associated
TLB OF INVENTION: with Sensitivity to Cisplatin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PLICANT: Gudkov, Andre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nucleic acid
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    McDonnell Boehnen Hulbert & Berghoff
    South Wacker Drive, 32nd Ploor

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                                                                                                                                       Genes and Genetic Elements Associated with Sensitivity to Cisplatin
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                                             Release #1.0,
            PCT/US95/02303
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                                           Version #1.25 (EPO)
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                  Query Match
Best Local Similarity
                                                                                                                                                 NUMBER OF SEQ ID NOS: 90
SEQ ID NO 13
LENGTH: 1651
         Matches
                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                 Sequence
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LENGTH: 1648
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                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/659,791A CURRENT FILING DATE: 2000-09-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patent No.
                                                                                                                                                                                                                                  TITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION
                                                                                                                                                                                                                                                         APPLICANT: Brett P.
APPLICANT: Susan M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/659,791A
CURRENT FILING DATE: 2000-09-11
                                                                        NAME/KBY: CDS
LOCATION: (199)...(1545)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION
                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Brett P
                                                                                                           FEATURE:
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NAME/KEY: CDS
LOCATION: (53)...(1402)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                  13, Application US/09659791A
o. 6383808
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Similarity 100.0%; Pred. No.
21; Conservative 0; Mismatch
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                  100.0%;
                  100.0%; Score 21; DB 4; 100.0%; Pred. No. 1.3;
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Pred. No. 1
   Mismatches
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                            Length 1651;
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   Indels
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Gaps
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CAGCAGCAGAGTCTTCATCAT 21

GCAGCAGAGTCTTCATCAT 196

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TITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION
FILE REPERENCE: RTS-0156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Brett P. Monia
APPLICANT: Susan M. Frei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo Bapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KBY: unsure
LOCATION: 5462
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LOCATION: 5461
OTHER INFORMATION: unknown
                                                                                                                                 PILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
                                                                                                                                                                                                          COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastESQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                               ZIP: 94304-1018
COMPUTER READABLE PORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENGTH: 7610
NAME: Axford, Leurie A
REGISTRATION NUMBER: 35,053
REFERENCE/DOCKET NUMBER: 32:
TELECOMMUNICATION INFORMATION:
                                                                             ATTORNEY/AGENT INPORMATION:
                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                        CITY: Palo Alto
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                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5558 CAGCAGCAGAGTCTTCATCAT 5538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                             755 PAGE MILL ROAD
                                                                                                                                                                                                                                                                                                                                       USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Botyanszki, Janos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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                                                                                                                                                                                                                                                                                 Diskette
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                       32260-20004.20
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Pred. No. 1.
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US-08-961-858-1/c
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                                                                                                                                                                                                                                                                                                                                                                                       US-09-565-286-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 1
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                                                                                                                                               Sequence 1, Application US/08961858 Patent No. 5834210
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                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: homo sapien
PEATURE:
NAME/KEY: CDS
LOCATION: (1)...(633)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: 08/950,925
PRIOR FILING DATE: 1997-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: STABILIZED CONJUGATES OF UNCOMPLEXED TITLE OF INVENTION: SUBUNITS OF MULTIMERIC PROTEINS FILE REFERENCE: 35574-22004.10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 08/730,111
PRIOR FILING DATE: 1996÷10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Dave, Kirti I.
APPLICANT: Botyanszki, J
APPLICANT: Sintar, Eva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/565,286
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 633
                                                             APPLICANT: Liu, Shigui
APPLICANT: Shi, Qinwei
TITLE OF INVENTION: STI
NUMBER OF SEQUENCES: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS
                                                CORRESPONDENCE ADDRESS:
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                               ADDRESSEE:
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                                                                                                                                 INFORMATION:
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Hackensack
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             411 Hackensack Avenue,
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1...630
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                                                                                  STABLE TROPONIN SUBUNITS AND COMPLEXES
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Pred. No. 4
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Pred. No. 4
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               4th Floor
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                                                                                                                                                                                                                                                                                                                                                  Length 633;
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Sequence 3, Application Patent No. 5834210
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                 CLASSIPICATION: 435
CLASSIPICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1112-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEX: 133521
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 651 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,858
                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Liu, Shigui
APPLICANT: Shi, Qinwei
TITLE OF INVENTION: STABLE TROPONIN SUBUNITS AND COMPLEXES
NUMBER OF SEQUENCES: 6
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HYPOTHETICAL:
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                                                       TBLBFAX:
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                                                                                                                                                                                                                                                                                                                                                                                                                                     DDRESSES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/961,858 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Jackson Bsq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1112-1-044 CIP
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94.7%;
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Pred. No. 45
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Best Local S
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                                                                                                                                                                                                                                                                                           MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1112-1-044 CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOPTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/089,593 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NTTORNEY/AGENT INFORMATION:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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Pred. No. 4
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-09-089-593-3/c
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SEQUENCE CHARACTERISTICS:
LENGTH: 651 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Liu, Shigui
APPLICANT: Shi, Qinwei
TITLE OP INVENTION: STABLE TROPONIN SUBUNITS AND COMPLEXES
NUMBER OP SEQUENCES: 6
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
ADDRESSE: Klauber & Jackson
STREET: 411 Hackensack Avenue, 4th Floor
CITY: Hackensack
STATE: New Jersey
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERRICE/DOCKET NUMBER: 11FELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
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COUNTRY: USA
ZIP: 07601
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IOR APPLICATION DATA:
APPLICATION NUMBER: 08/961,858
FILING DATE:
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                      Score 17.4;
Pred. No. 4:
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/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
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                                                                                                                                                                Length
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/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                      'SIDS1/gcgdata/geneseq/geneseqn-emb
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SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1990.DAT:*
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275
396
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                     AAA94226
AAT00416
AAC06940
AAF94824
ABT03091
ABL48774
AAC03751
                                                                                                                                                                                                               SUMMARIES
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geneseqn-embl/NA1988.DAT:*
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                                                Genetic suppressor
Human secreted pro
Human ovarian canc
Human ovarian carc
                                                                                                                                                         Description
Ovarian carcinoma
Human secreted pro
EST clone CG1. Ho
                                                                                                                         Human testosterone
                                                                                                                                                                                                                                                           to have a being printed,
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	ABL10236	23	3050	84.8	17.8	<b>4</b>	
Human dithp zinc f	ACC46350	25	2445	84.8	17.8	4	
2	AAS45136	22	2304	•	17.8		•••
Arabidopsis thalia	AAC45344	21	1201	٠	17.8	4.2	•••
	AAC42693	21	963	٠.	17.8	4	•
Arabidopsis thalia	AAC45936	21	960	84.8	17.8	40	
Drosophila melanog	ABL10237	23	552		17.8	9	•••
α.	AAL46602	24	520	84.8	17.8	8	•••
	AAT64831	17	460	84.8	17.8	37	•
Human secreted pro	AAC10235	21	448		17.8	36	•••
opsis	AAC42717	21	446		17.8	ι ω 5	•••
ne EST a	ABX40866	25	426	84.8	17.8	4	•••
cobra	AAT64833	17	426	84.8	17.8	1	
cobra	AAT64834	17	418	84.8	17.8	32	
cobra	AAT64832	17	417	84.8	17.8	31	•
BST	ABX43344	25	416	84.8	17.8	30	
EST	ABX45607	25	414	84.8	17.8	29	
BST	ABX37324	25	414	84.8	17.8	28	
BST	ABX37325	25	413	84.8	17.8	27	
EST	ABX48928	25	389	84.8	17.8	26	
TST	ABX41456	25	379	84.8	17.8	25	•••
EST	ABX38693	25	377	84.8	17.8	24	•
Bovine EST associa	ABX35023	25	366	•	17.8	23	•••
	AAX24790		50	84.8	17.8	22	•••
Streptococcus pol	ABN71527		2155561	87.6	18.4	21	
clusterin	ABN99665		7610	100.0	21	20	••
Human cDNA encodin	ABS78651	24	1712	100.0	21	19	•••
Osteoarthritis tis	AAH23086	22	1678		21	18	
Human clusterin o	ABN99666	24	1651	100.0	21	17	•••
Cytolysis Inhibito	AAQ11503	12	1651		21	16	••
	ABN99656 .	24	1648	100.0	21	15	•••
Human cDNA encodin	ABS78654	24	1589	100.0	21	14	•••
cDNA encoding nove	AAS44948	22	1568	100.0	21	13	
Toxicologically re	ABZ83527	25	1024	100.0	21	12	
secreted	AAA43857	21	922	100.0	21	11	.,
ovaria	AB056105	24	704	100.0	. 21	10	1,
Human normal bladd	AAZ42136	20	572	100.0	21	G	٠,,

00000000000000000000

## ALIGNMENTS

Human testosterone-repressed prostate message-2 antisense oligo #2.

12-JAN-2001 AAA94226;

(first entry)

AAA94226 standard; DNA;

21 BP

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RESULT 1
AAA94226
ID AAA9
XX AAA9
XX AAA9
XX Huma
XX Huma
XX Huma
XX Homo
XX H
Treating prostatic tumors and renal cancers by antisense inhibition the testosterone-repressed prostate messenger-2 gene -
                                                                                                                                                                  WPI; 2000-533132/48.
                                                                                                                                                                                                                                                                      Gleave M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-FEB-2000; 2000WO-US04875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; testosterone-repressed prostate message-2; TRPM-2; clusterin; sulfated glycoprotein-2; SGP-2; cancer; antisense oligonucleotide; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200049937-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                          (UYBR-) UNIV BRITISH COLUMBIA.
                                                                                                                                                                                                                                                 Rennie PS, Miyake H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-0121726.
                                                                                                                                                                                                                                                            Nelson C;
                                                    ō.
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Claim 3; Page 36; 38pp; English

human testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SGP-2). The sequence was shown to promote the regression of tumours, and ollowout contides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the chemosensitivity of the cells, meaning that conventional chemotherapy is present sequence is an antisense oligonucleotide effective directed also known

Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 other;

iery Match LOCAL Similarity Conservative 100.0%; 0 Score 21; DB Pred. No. 3.9; Mismatches DB 21; ç, Length Indels ٥, Gaps

# 1 CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 21

AAT00416 standard; cDNA; 195 BP

26-MAR-1996 (first entry)

element HL7.1.

Genetic suppressor element; GSE; platinum-based drug; cisplatin; chemotherapy; HL7.1; testosterone-repressed prostatic message-2; TRPM-2;

Synthetic.

WO9522612-A2 24-AUG-1995

22-FEB-1995; 95WO-US02303.

22-FEB-1994; 94US-0199900.

(UNII ) UNIV ILLINOIS FOUND.

Gudkov A, Kirschling DJ, Roninson

Genetic suppressor elements which confer resistance to platinum-based drugs, eg. cisplatin, on cancer cells - useful for enhancement of chemotherapy, and for diagnosis of resistance to

Claim 14; Fig 17; 75pp; English

shows homology to the CDNA encoding testosterone repressed prostatic message-2 (TRPM-2). These sequences were obtained from a CDNA library derived from the total CDNA of a cisplatin sensitive cell. Genetic suppressor elements confer resistance to platinum-based drugs (PDs), such as cisplatin. These functional GSEs can then be used to create probes for the parent gene. The probes can then be used in a method of measuring the level of GSE gene expression. The GSEs can be used in methods of diagnosis of resistance to PDs by measuring the level of expression of GSE genes. The GSEs are also used in methods to overcome resistance to PDs in cancer cells. The GSEs (or fragments of them) can The sequences represented by AAT00405-T00418 are genetic suppressor elements (GSEs). This sequence represents GSE HL6.10. This sequence This sequence

Query Match

100.0%;

Score 21;

몂

21; Length

Sequence 275 BP; 59 A; 88 C;

85 G; 43 T; 0 other;

expression

and secretion

vectors

RESULT 3 AAC06940/c 맑 នន្តន្តន្តន្តន្ត្ S Matches Query Match The present sequence is one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. No ORP has yet been conclusively identified within the present sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. ESTs sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design be used to inhibit the function of genes associated with sensitivity to PDS. For enhancement of chemotherapy, a GSE can be transferred (either alone or with another gene) on an expression vector into blood progenitor cells from a cancer patient. The cells are returned to the patients circulation and allowed to repopulate the blood before aggressive chemotherapy is carried out (using higher cisplatin concentrations than normal), this will thereby avoid toxic side effects to the immune system as the blood cells will be GSE resistant. New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and fo 26-FEB-1999; Human secreted Claim 1; SEQ ID 11015; 71pp + CD-ROM; English diagnostic, forensic, gene therapy and chromosome mapping procedures WPI; 2000-500381/45. Dumas Milne Edwards J, Duclert A, 21-FEB-2000; 2000EP-0200610 06-SEP-2000 EP1033401-A2 Homo sapiens gene Human; 5' EST; expressed 06-OCT-2000 AAC06940 AAC06940 standard; cDNA; 275 Sequence 195 BP; 46 A; 45 C; 71 G; 33 T; 0 other; (GEST ) GENSET ьосаі therapy; Similarity CAGCAGCAGAGTCTTCATCAT CAGCAGCAGAGTCTTCATCAT 21 Conservative (first entry) chromosome mapping; ss. 99US-0122487 protein 5' 100.0%; Score 21; 100.0%; Pred. No. sequence tag; secreted protein; cDNA isolation; EST, 0 ВP SEQ ID NO: 11015 67 Mismatches Giordano 5.2; DB 16; Length 195; <u>,,</u> 0, for Gaps 0

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03091/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3ULT 4
?94824/c
AAP94824 standard; cDNA; 396
                                                                                                                                                                                                                                                          atches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 100. Matches 21; Conservative
    Human; ovarian cancer; ovarian carcinoma; gene therapy;
                                  Human ovarian carcinoma associated coding sequence SEQ ID
                                                                   05-SEP-2002
                                                                                                ABT03091;
                                                                                                                      ABT03091 standard; cDNA; 396
                                                                                                                                                                                                                                                                                                            Sequence 396 BP; 129 A; 83 C; 121 G; 62 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                    The present invention provides a number of coding sequences and proteins, the over-expression of which is associated with ovarian carcinoma/cancer. These can be used in the diagnosis, treatment and prevention of ovarian cancer, optionally by gene therapy or in the form of a vaccine. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-SEP-199; 99US-0394374.
01-MAY-2000; 2000US-0561778.
15-AUG-2000; 2000US-0640173.
07-SEP-2000; 2000US-0656668.
                                                                                                                                                                                                                                                                                                                                             present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 18; Page 120; 189pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Isolated polypeptides associated with ovarian carcinomas, and the nucleic acids that encode them, useful for the prevention diagnosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-211395/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               treatment of ovarian cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200118046-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human ovarian cancer associated coding sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORI-) CORIXA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-SBP-2000; 2000WO-US24827.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human, ovarian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF94824;
                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                   79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          128
                                                                                                                                                                                                                1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stolk JA;
                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                CAGCAGCAGAGTCTTCATCAT 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGCAGCAGAGTCTTCATCAT 108
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                                                                                                                                                                                                                                                      100.0%; Score 21; DB'larity 100.0%; Pred. No. 5.7; Conservative 0; Mismatches
                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                             is an example of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          vaccine; gene therapy; carcinoma; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gg.
                                                                                                                                                                                                                                                                                                                                       one of these sequences
                                                                                                                                                                                                                                                                               DB 22; Length 396;
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    immunotherapy;
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ABL48774/C
ID ABL48774 standard; cDNA; 396 BP.
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AC ABL48774;
XX
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Best Local S
Matches 21
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                                                          15-AUG-2000;
07-SEP-2000;
14-NOV-2000;
                                                                                                                                                                                                                                                                     Ovarian cancer; cancer therapy; vaccine; gene therapy; tumour; cancer;
                                                                                                                                                                                                                                                                                                         Ovarian carcinoma
(XUJJ/) XU J.
(STOL/) STOLK J A.
(ALGA/) ALGATE P A.
                                                                                                                   10-SEP-1999;
                                                                                                                                             03-APR-2001; 2001US-0825294.
                                                                                                                                                                                                      US2002004491-A1
                                                                                                   01-MAY-2000;
                                                                                                                                                                            10-JAN-2002.
                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                     18-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 396 BP; 129 A; 83 C; 121 G; 62 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention provides human ovarian cancer associated proteins and coding sequences. The sequences can be used in the diagnosis and treatment of ovarian cancers. The present sequence is a coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel ovarian cancer polypeptide and polynucleotide, useful for detecting the presence of ovarian cancer in a patient, and in pharmaceutical compositions, e.g. vaccines, for treating ovarian cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-NOV-2000; 2000US-0713550
03-APR-2001; 2001US-0825294
02-OCT-2001; 2001US-0970966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Xu J, Stolk JA, Algate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 117; 197pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-500186/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200239885-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytostatic; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CORI-) CORIXA CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                      2000US-0640173.
2000US-0656668.
                                                                                                   2000US-0561778
                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                            2000US-
                                                                                                                  99US-0394374.
                                                                                                                                                                                                                                                                                                       sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 21; DB 24; Length 396; 100.0%; Pred. No. 5.7;
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                                                                                                                                                                                                                                                                                                       isolate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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Ovarian tumour polypeptide and polymucleotide useful in diagnosis, prevention and/or treatment of cancer, especially ovarian cancer
                                                                                                                                                                                                                   (PLIN/) PLING S
                                                                                                                                                      Stolk JA, Algate PA,
                                                                                                                                                      Pling
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SP;

Example 1; Page 43; 131pp; English

stimulating an immune response in a patient, and for treating a cancer in a patient and for determining the presence of a cancer in a patient. The isolated polynucleotides of the invention are useful for their ability to selectively form duplex molecules with complementary stretches of the entire desired gene or gene fragments, and for designing and preparing ribozyme molecules for inhibiting expression of tumour polypeptides in tumour cells. Polypeptides and polynucleotides of the invention are also useful in recombinant DNA molecules to direct expression of a polypeptide in appropriate host cells. The sequences given in records ABL48760-ABL48956 represent polynucleotides encoding overland accordance. The invention relates to ovarian tumour polynucleotides and polypeptides that may be utilised in cancer therapy, for example in a vaccine or gene therapy. Polypeptides and polynucleotides of the invention are useful for detecting a cancer in a patient, for stimulating and/or expanding T-cells specific for a tumour protein, and for inhibiting the ovarian development of a cancer in a patient. They are also useful carcinoma proteins.

Sequence 396 BP; 129 A; 83 C; 121 G; 62 T; 1 other;

ery Match Local 21; Similarity Conservative 100.0%; <u>.</u> Score 21; DB; Pred. No. 5.7; Mismatches DB 24; Length 396; 0 Indels 0, Gaps 0

#### 79 CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 59

AAC03751 standard; cDNA; 491 BP

AAC03751;

06-OCT-2000 (first entry

Human secreted protein 5'

therapy; 5' EST; expressed sequence tag; secreted protein; cDNA isolation; chromosome mapping; ss.

BST, SEQ ID NO: 3749.

Homo sapiens.

EP1033401-A2

06-SEP-2000

21-FEB-2000; 2000EP-0200610.

26-FEB-1999; 99US-0122487.

(GEST ) GENSET

Dumas Milne Edwards J, Duclert ۶ Giordano

2000-500381/45. DB; AAG03745.

New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures

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                                       ঠ
                                                                                                                                                                         Matches
                                                                                                       Query Match
Best Local (
                                                                                                                                                                                                                            often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion
                                                                                                                                                                                                                                                                                                                                                                                               The present sequence is one of a large number of 5' BSTs derived from mRNAs encoding secreted proteins. An ORP has been identified within the sequence: The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. BST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are
                                                                                                                                                                  Sequence 491 BP; 149 A; 114 C; 149 G; 78 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID 3749; 71pp + CD-ROM; English
                                                                                                                                                                                                                 vectors.
128 CAGCAGCAGAGTCTTCATCAT 108
                            1 CAGCAGCAGAGTCTTCATCAT
                                                                                   21;
                                                                                                       Similarity
                                                                                   Conservative
                                                                                                     100.0%; Score 21; DB 100.0%; Pred. No. 5.9;
                                                                                 0
                                         21
                                                                                 Mismatches
                                                                                                                         DB 21; Length 491;
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RESULT 8
AAV89150/c
ID AAV891
XX AAV891
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CC Gordit EST clone 15-FEB-1999 AAV89150; AAV89150 standard; cDNA; 512 ဌဌ (first entry) ₿₽.

Human; secreted protein; expressed sequence tag; EST; haematopoiesis; tissue growth; activin; inhibin; chemotaxis; chemokinesis; haemostatic; receptor; ligand; thrombolytic; anti-inflammatory; cadherin; anti-tumou WO9845436-A2 Homo sapiens therapy;

15-0CT-1998.

10-APR-1998; 98WO-US06955

10-APR-1997; 9705-0838821

(GEMY ) GENETICS INST INC

Agostino MJ, Racie LA, S Spaulding V, Lavallie ER, Treacy M; McCoy JM, Merberg

Ö

WPI; 1999-070077/06.

New polynucleotides encoding human secreted proteins - de e.g. human blood, kidney, foetal lung, placenta, testes, ovary, pituitary, retina and colon cDNA libraries. derived

Claim 1; Page 126; 618pp; English.

The present sequence represents a human expressed sequence tag (E The polynucleotide, which is a secreted EST, and the encoded prot are predicted to have useful biological activities which would mathem suitable for treating, preventing or ameliorating medical conditions in humans and animals, although no supporting data is given. Suggested activities include nutritional activity, EST, and the encoded protein activities which would make expressed sequence tag (EST).
EST, and the encoded protein

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This invention describes novel polypeptide fragment sequences (I) and their encoding nucleic acids (II) which are highly expressed in normal bladder tissue and have cytostatic activity. (II) are used for recombinant expression of (I) and to isolate complete genes. (I) are used to identify agents suitable for the treatment of bladder tumours, to directly creat this form of cancer (including expression from gene therapy vectors), or are used in a preparation for cancer treatment. (I) identified by assembling ESTs (expressed sequence tags) from a particular tissue type before comparison of expression patterns. This allows a significantly longer fragment of the gene to be revealed, and therefore reduces the number of failures because of ESTs from different libraries representing different parts of the same unknown gene distorting the estimated fragments of the same unknown gene that the estimated fragments derived from a human normal bladder tissue cDNA library which encode the protein fragments
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 3; Page 158; 366pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-602416/52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; bladder; treatment; EST; expressed sequence tag; cytostatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rosenthal A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (META-) METAGEN GES GENOMFORSCHUNG MBH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polypeptides and their nucleic acids, useful for treatment of der tumour and identification of therapeutic agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
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lery Match

Sequence 572 BP; 161 A; 128 C; 186 G; 97

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100.0%;

Score 21;

DB 20; Length 572; 0 other; represented in

AAY60329-Y60591.

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The invention relates to 2175 novel human ovarian antigens (ABP41054-CC ABP41228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also compasses polypeptides 90% identical and polynucleotides 95% identical to the sequences of the invention. The invention additionally relates to compasses polypeptides 90% identionally relates to compasse polynucleotides, antipodies against human ovarian antigen and the use of ovarian antigen polynucleotides and polypeptides in diagnosing, comparing, prognosing or preventing various ovary and/or breast-related disorders. Such conditions include ovarian cancer and breast cancer, and compassed to compasse of ovarian or breast origin, reproductive system compassed (e.g., infertility, disorders of pregnancy, anovulation, completed ovary syndrome) ovarian cysts, and dysmenorrhoea), endocrine disorders, infections (e.g., chiamydia, HIV, toxoplasmosis, and toxic cock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and companial), immune disorders (e.g., congenital and acquired immunodeficiencies, autolumune ophoritis, systemic lupus crythematosus), cospiratory disorders, neurological disorders, gastrointestinal disorders and urinary system disorders. Ovarian antigen polypeptides and concerning companials and companials and concerning and urinary system disorders. Ovarian antigen polypeptides and acquired concerning and urinary system disorders. Ovarian antigen polypeptides and concerning and co
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID No 1985; 2922pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Isolated nucleic acid molecules encoding novel ovarian polypeptides, useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian cancer), immune disorders, cardiovascular disorders and neurological diseases;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cardiovascular disorder; respiratory disorder; neurological disorder; gastrointestinal disorder; urinary system disorder; drug screening; gene therapy; chromosome mapping; forensic analysis; antibody preparation; cytostatic; immunomodulatory; neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour; ovarian cancer; breast cancer; tumour; reproductive system disorder; infertility; pregnancy disorder; anovulation; polycystic ovary syndrome; PCOS; ovarian cyst; dysmenorrhoea; endocrine disorder; infection; inflammatory condition; immune disorder; blood disorder; infection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-JUN-2000; 2000US-209467P.
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in screening
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Mismatches
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for
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modulate ovarian antigen expression or activity. The polynucleotides may further be used for gene therapy, chromosome mapping, in the identification of individuals and in forensic analysis, and the polypeptides may be used as food additives or to prepare antibodies useful in disease diagnosis, drug targeting and phenotyping. The present sequence represents cDNA encoding a human ovarian antigen of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO ftp.wipo.int/pub/published\_pct\_sequences.

704 BP; 180 A; 197 C; 199 G; 121 T; 7 other;

ery Match Similarity Conservative 100.0%; 0 Score 21; Pred. No. Mismatches 6.1; DB 24; <u>,,</u> Length 704; Indels <u>.</u> Gaps

0

1 CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 129

149

TLT 11 :3857/c AAA43857 standard; cDNA; 922 BP

21-AUG-2000 (first entry)

Human secreted expressed sequence tag SEQ ID NO:432.

antiviral; antidiabetic; antiasthmatic; vulnerary; antiparkinsonian; antilicer; osteopathic; neuroprotective; nootropic; antipacriatic; cerebroprotective; anticonvulsant; antidepressant; gene therapy; vaccine; autoimmune disorder; multiple sclerosis; allergic condition; insulin dependent diabetes; asthma; myeloid cell deficiency; ulcer; lymphoid cell deficiency; burn; osteoporosis; osteoarthritis; central nervous system disorder; Alcheimer's disease; stroke; tumour; infection; Parkinson's disease; Huntington's disease; coagulation haemophilia; thrombosis; inflammatory disorder; Crohn's expressed sequence tag; EST; probe; chemotactic; proliferative; immunomodulatory; haematopoietic; chemokinetic; analgesic; haemostatic; thrombolytic; antiinflammatory; cytostatic; antibacterial; antifungal; mouse; chicken; rat; secreted expressed sequence tag; sEST; depression; psoriasis; 88 disorder;

WO200021991-A1

20-APR-2000

99WO-US24206.

15-0CT-1998; 98US-0104436.

(GEMY ) GENETICS INST INC.

Jacobs K, Merberg D, McCoy JM, Treacy M, LaVallie ER, Bowman MR; Collins-Racie Ę Evane

WPI; 2000-317938/27

Isolated polynucleotides, and encoded proteins, comprising secreted expressed sequence tags (sESTs), useful for treating various disorders such as autoimmune, infectious, and central nervous system disorders -

Claim 1; Page 316; 803pp; English.

AAA43426 to AAA45925 represent specifically claimed secreted expressed sequence tags (sESTs), isolated from human, mouse, chicken and rat tissue sources. The sESTs can have a range of activities depending on

toxicological response to an agent, which comprises comparing expression profile of one or more human toxic response genes treference gene expression profile indicative of toxicity and determining the presence of a toxic response to the agent. Als

Claim 1; Page 232; 455pp; English.

The present invention describes a method

(M1) for determining

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RESULT 12 ABZ83527/c 밁 S Matches Query Match anticonvulsant; and antidepressant. The SETs can be used for gene therapy and in vaccines; The SETs are useful as probes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond to the SETs. Proteins encoded by the SETs are useful in assays for determining biological activity and raising antibodies. They may be useful for treatment of autoimmune disorders (multiple sclerosis, insulin dependent diabetes), allergic conditions (asthma), myeloid or lymphoid cell deficiencies, wounds, burns, ulcers, osteoporosis, osteoparthritis, central nervous system disorders (Alzheimer's, Parkinson's, Huntington's disease, stroke), coagulation disorders (haemophilia, thrombosis), inflammatory disorders (Crohn's disease), tumours, bacterial, fungal or viral infections, depression and psoriasis. AAA45926 to AAA45931 represent linker variants which are given to the stroke of t Determining a toxicological response to an agent, useful for screening of drugs, comprises comparing the expression profile of one or more human toxic response genes to a reference gene expression profile indicative of toxicity. 16-AUG-2001; 2001US-313080P 16-AUG-2002; 2002WO-US26514. Homo sapiens ABZ83527; ABZ83527 standard; cDNA; 1024 BP WPI; 2003-268322/26 Alen Neft RE, 27-FEB-2003 Toxicologically Toxicologically relevant human nucleotide sequence #686 14-MAY-2003 chemokinetic; analgesic; haemostatic; thrombolytic; antiinflammatory; cytostatic; antibacterial; antifungal; antiviral; antidiabetic; cytostatic; neuroprotective; antiasthmatic; vulnerary; antiulcer; osteopathic; neuroprotective; (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY INC. WO2003016500-A2 Sequence 922 the tissues they were isolated from. The activities include: chemotactic; proliferative; immunomodulatory; haematopoietic nootropic; antiparkinsonian; antipsoriatic; cerebroprotective; chemokinetic; analgesic; in the exemplification of the present invention. oca1 52 21; Similarity CAGCAGCAGAGTCTTCATCAT CAGCAGCAGAGTCTTCATCAT 21 Dunn RT, Conservative B₽; (first entry) relevant gene; 243 A; 265 C; Adkins K, 100.0%; 0 immunomodulatory; haematopoietic; Score 21; Pred. No. Pickett GG, 32 toxicological response; gene; 244 G; Mismatches 166 T; 4 other; 6.4; DB 21; Kier LD, <u>..</u> Length Indels Schmeiser depression and which are give 0, <u>.</u> Gaps are given 0

Novel polypeptides and nucleic acids obtained from cDNA libraries prepared from various human tissues, for diagnosis and treatment of cancer, neurological, inflammatory, and autoimmune disorders -

from the genes corresponding to the partial sequences given in ABZ82842 to ABZ84764, or their fragments of at least 20 nucleotides, or homologues; and (2) determining if a gene putatively identified to be a toxic response gene plays a role on toxic response pathways by determining the expression profile of the gene after exposure of cells or a human subject to a known toxic pharmaceutical or industrial agent, comprising: (a) exposing cells to an agent or isolating cells from a human subject who was exposed to an agent; (b) obtaining the test gene exposure to a known toxic pharmaceutical toxic response gene after exposure to a known toxic pharmaceutical or industrial agent; and (c) comparing the test profile to the expression profile of a gene with a similar function or comparing the test profile to the expression profile of that gene after exposure to other known toxic compounds. The methods are useful for predicting and determining toxicological responses on a cellular, organ or system level. The arrays comprising the human genes are useful for toxicological screening of drugs, pharmaceutical compounds and chemicals. described: (1) an array comprising one or more polynucleotides selected

Sequence 1024 BP; 262 A; 299 C; 278 G; 185 T; 0 other;

Matches Query Match Best Local 21; Similarity Conservative 100.0%; Score 21; DB 25; Length 1024; 100.0%; Pred. No. 6.4; 0 Mismatches 6.4; 0 Indels 0 Gaps

18-DEC-2001

(first entry)

AAS44948 standard; cDNA; 1568 BP

cDNA encoding novel human secretory protein, Seq ID No

29.

ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy; transgenic animal; Alzheimer's disease; Parkinson's disease; burn; amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia; ulcer; osteoporosis; bone degenerative disorder; periodontal disease; gut protection; lung; liver fibrosis; immune deficiency; infection; severe combined immunodeficiency; SCID; autoimmune disorder; allergy; multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma; Human, secreted protein; arthritis; Crohn's disease; sepsis; shock; fertility; analgesic; pain;

Homo sapiens

WO200166689-A2

13-SEP-2001.

05-MAR-2001; 2001WO-US04942

07-MAR-2000; 2000US-0519705, 19-MAY-2000; 2000US-0574454, 17-UUN-2000; 2000US-0596193, 14-UUL-2000; 2000US-066847, 19-SEP-2000; 2000US-0665363,

(HYSB-) HYSEQ INC

2000US-0693267

Tang Zhao 24 Liu C, Yang Y, Asundi V, Xı Drmanac RT, Xu C, Wehrm RT, Zhang J, Wehrman T, Re ung J, Chen R, Ren F, Ą Ma Y, wang ? Zhou lang J; ٦,

WPI; 2001-589934/66. P-PSDB; AAU28048.

CC and remodeling. (I), (II) and modulators of (III) are useful for CC prophylaxis or treatment of one or more cancers. (II) is also useful for CC creating transgenic animals useful for studying the in vivo activities of the polypeptide as well as for studying modulators of the polypeptides. (CC (I) induces the proliferation of neural cells and regeneration of nerve CC and brain tissue and is useful for the treatment of central and CC parkinson's disease, fluntington's disease, and amyotrophic lateral CC activity, regulation of haematopoiesis and is useful for treating myeloid CC artiphoral cell disorders, platelet disorders such as thrombocytopenia CC and for regeneration of bone, cartilage, tendon, ligament and/or nerve tissue growth, and in tissue, repair, healing of burns, incisions, CC ulcers, for treating osteoporosis, osteoarthritis, bone degenerative CC ulcers, for treating osteoporosis, osteoarthritis, bone degenerative CC ulcers, for treating severe combined immunodeficiency (SCID), bacterial or fungal infections, autoimmune disorders e.g. multiple sclerosis, creperfusion injury in various tissues, various immune deficiencies and CC disorders including severe combined immunodeficiency (SCID), bacterial or fungal infections, such as asthma or other respiratory problems. CC reactions and conditions, such as asthma or other respiratory problems. CC inmune response. Apa4920.AA49320.AA4 involved in increasing haematopoiesis, stem cell survival, bone growth and remodeling. (I), (II) and modulators of (II) are useful for prophylaxis or treatment of one or more cancers. (II) is also useful for and polynucleotides (II). (I) and (II) are useful for treating inflammatory conditions such as arthritis, nephritis, Crohn's disease, ischaemia-reperfusion injury, shock, sepsis, immune responses, and is Claim 1; SEQ ID No 29; 107pp; English. invention relates to novel isolated human secreted polypeptides (I)

Sequence 1568 BP; 386 A; 456 C; 434 G; 292 T; 0 other;

Best Loc Matches Query Match Local Similarity 21; Conservative 100.0%; <u>,</u> Score 21; DB; Pred. No. 6.8; Mismatches DB 22; 0, Length 1568; 0; Gaps

0

밁 S

ABS78654 standard; cDNA; 1589

Human cDNA encoding CGDD12, INCYTE 7503618CB1.

(first entry)

Human; 88; gene; cell growth; differentiation; death; CGDD; cancer; cell proliferative disorder; arteriosclerosis; atherosclerosis; cirrhosis; hepatitis; paroxysmal nocturnal haemoglobinuria; psoriasis; polycythaemia vera; primary thromobocytopaenia; developmental disorder; renal tubular acidosis; anaemia; mental retardation; epilepsy; AIDS; neurological disorder; Alzheimer disease; Parkinson's disease; asthma; reproductive disorder; infertility; autoimmune disorder; gout; allergy; inflammatory disorder; acquired immunodeficiency syndrome; uveitis; autoimmune thyroiditis; contact dermatitis; Crohn's disease; infection; diabetes mellitus; glomerulonephritis; irritable bowel syndrome; multiple sclerosis; osteoarthritis; osteoporosis; pancreatitis;

Homo sapiens

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polynucleotides, a cell transformed with the recombinant polynucleotide, a transgenic organism comprising the recombinant polynucleotide, an anti-CGDD antibody, screening for compounds which bind to/modulate or are ant/agonists of CGDD or alter the expression of CGDD polynucleotide microarray.

The polypeptides polynucleotides, agonists and antagonists are useful for diagnosing, treating or preventing disorders associated with aberrant expression of CGDD, particularly cell proliferative (e.g. arteriosclerosis, atherosclerosis, cirrhosis, hepatitis, paroxysmal nocturnal haemoglobinuria, polycythaemia vera, psoriasis, primary thromobocytopaenia or cancer), developmental disorders (e.g. renal tubular acidosis, anaemia or mental retardation), neurological disorders (e.g. Alzheimer disease, Parkinson's disease or epilepsy), reproductive disorders (e.g. infertility or a disruption in the mener tual cycle) or anteriomine/inflammary disorders (e.g. infertility or a disruption in the
                                                                                                                                                                                                                                      uery Match
                                                                                                                                                                                                                                                                                                                                                                                  thyroiditis, contact dermatitis, Crohn's disease, diabetes mellitus, glomerulonephritis, gout, irritable bowel syndrome, multiple sclerosis, osteoarthritis osteoporosis, pancreathitis, rheumatoid arrthritis uveitis, or viral, bacterial, fungal, parasitic, protozoal or helminthic infections. They are also useful in the assessment of the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of proteins associated with CGDD. The present sequence encodes a CGDD protein.
                                                                                                                                                                                                                                                                                                   Sequence 1589 BP; 407 A; 421 C; 466 G; 295 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to an isolated polypeptide comprising CGDD1-12 (cell growth, differentiation and death), a naturally occurring amin acid sequence at least 90% identical to CGDD, a biologically active
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New human proteins associated with cell growth, differentiation and death, useful for diagnosing, treating or preventing autoimmune or inflammatory disorders (e.g. AIDS, allergy or anemia), cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ding L,
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23-FBB-2001; 2001US-271175P.
08-MAR-2001; 2001US-274503P.
09-MAR-2001; 2001US-274552P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polynucleotides encoding CGDD1-12, a recombinant polynucleotide comprising a promoter sequence operably linked to the CGDD
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P-PSDB; ABG97361.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          menstrual cycle), or autoimmune/inflammatory disorders (e.g. AIDS, acquired immunodeficiency syndrome) allergies, asthma, autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ragment or an immunogenic fragment. Also included are the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (INCY-) INCYTE GENOMICS INC.
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                                                                                                                                                                                         100.0%; Score 21; 100.0%; Pred. No.
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ABN99656/c

ID ABN99656 standard; DNA; 1648 BP.

XX

AC ABN99656;

XX

DT 16-AUG-2002 (first entry)

XX

DE Human clusterin gene sequence 1.

XX

KW Human; antisense inhibition; antise

KW hypercholesterolaemia; cardiovascu;

KW hypercholesterin such as hyperlipidemic d.

XX

DR P-PSDB; AAO15039.

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DR P-PS
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                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                       The invention comprises antisense oligonucleotides that are capable of inhibiting expression of the human clusterin gene. The antisense oligonucleotides of the invention are useful for inhibiting the expression of clusterin in cells. The antisense oligonucleotides are also useful for treating an animal with a disease or condition associated with clusterin (e.g. hypercholesterolaemia; cardiovascular disorders; hyperproliferative disorders; and hyperlipidemic disorders). The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel antisense compound targeted to nucleic acid molecule encoding clusterin, useful for treating animal having disease associated with clusterin such as hyperlipidemic disorder, cardiovascular disorder
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                                                                                                                                                                                                                                                                                                                                           DNA sequence represents a human clusterin
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SUMMARIES

#### ŏ. Score Match 100.0 100 23701 46099 120871 181889 199050 300029 134514 175475 1234431 1334051 1636 1678 Length 1658 1676 1678 1684 몂 SAG766850 AB015936 PIGCCIMRA AP023271 AF023272 ASU86588 NSU86589 NSU86599 NSU86599 AC140915 AL845317 AF118852 AF063235 AE014247 AX602197 HSCSP40 AX202086 BC010514 AX600209 AX600209 AR208713 HUMTRPM2A1 AC025192 AF311103 AK093399 AX600212 AR208704 DOGGP80 AC123374 HUMTRPM2F U86588 Naja sputat U86599 Naja sputat U86591 Naja sputat U86592 Naja sputat U86593 Naja sputat U86594 Naja sputat U86596 Naja sputat AL766850 Streptoco AE015936 Clostridi M84639 Pig complem AP023271 Naja sput AP023372 Naja sput BC019588 Homo Sapi X14723 Human SP-40 AX202086 Sequence BC010514 Homo sapi AX600209 Sequence AR208713 Sequence AR208713 Sequence M63376 Human TRPM-AC025192 Homo sapi AP311103 Homo sapi AP311103 Homo sapi AP311103 Homo sapi AP311103 Fomo sapi AP31103 Fomo sapi AP3110 AX600212 Sequence AR208704 Sequence M64722 Human TRPM-A21577 blood plasm AR208714 Sequence M25915 Human compl Description Secreted Homo sapi Sequence Sequence Sequence Sequence EST and e

#### ALIGNMENTS

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cus	AR302789 181 bp mRNA linear PAT 12-JUN-2003	
FINITION	19 from patent US 6541603.	
CESSION	AR302789	
RSION	AR302789.1 GI:31691276	
YWORDS	•	
URCB	Unknown.	
ORGANISM	Unknown.	
	Unclassified.	
FERENCE	1 (bases 1 to 181)	
AUTHORS	Kirschling, D.J., Gudkov, A. and Roninson, I.B.	
TITLE	Genes and genetic elements associated with sensitivity to	
	platinum-based drugs	
JOURNAL	Patent: US 6541603-A 19 01-APR-2003;	

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Seguence 14 from patent
AR302784
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                                                                                                                                                       1 (bases 1 to 275)
Edwards, J.B.D.M., Duclair, B. and Jordan, J.Y.
Sequence J.B. and encoded human protein
Patent: JP 2001269182-A 6931 02-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 195)
Kirschling,D.J., Gudkov,A. and Roninson,I.E Genes and genetic elements associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unknown
                                                                                                                                                                                                             Bukaryota; Metazoa; Chordata;
Mammalia; Butheria; Primates;
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| | tent: US 6541603-A 14 01-APR-2003
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24-FEB-2000 JF 2000118773
26-FEB-1999 US 60/122487
JEAN BAPUTIST DUMAS MILNE EDWARDS, BIMERIC DUCLAIR, JEAN YVES
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                                                                                                                  JP 2001269182-A/6931
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                                                    1 (bases 1 to 482)
Edwards,J.B.D.M., Jobert,S. and Giordano,J.B.
EST and encoded human protein
Patent: JP 2002010789-A 9400 15-JAN-2002;
GENSET CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 396 bp
Sequence 15 from Patent W00118046.
AX093197
AX093197.1 GI:13509646
                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae
                                                                                                                                                Homo sapiens
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BSJ and encoded human protein.
BD117323
BD117323.1 GI:23212227
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                          JP 2002010789-A/9400.
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Homo sapiens (human)
JP 2002010789-A/9400
15-JAN-2002
07-AUG-2000 JP 2000280989
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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83 c 121 g
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
88.c 85 g 4
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1 CAGCAGCAGAGTCTTCATCAT 21
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PC C12P2
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1 (Dases 1 to 491)

Edwards, J. B. D. M., Duclair, B. and Jordan, J.Y.

Sequence tag and encoded human protein
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                                     Similarity
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                                                                                                                                                                                                                                                                                                                                                                           Patent: JP 2001269182-A 3742 02-OCT-2001;
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                       Conservative
                                                                                                                                                                                                                                                                                                                            Homo sapiens (human)
JP 2001269182-A/3742
02-OCT-2001
                                                                                                                                                             eig_peptide
                                                                                                                                                                                                 seq LLFVGLLLTWESG/QV
                                                                                                                                                                                                                score 6.3
                                                                                                                                                                                                                                                                                                   24-FBB-2000 JP 2000118773
26-FBB-1999 US 60/122487
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tag and encoded
                                                                                  'organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

114 c 149 g 7
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
107 c 150 g 7
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                                 Nishi,T., Ota,T. Nakagawa,S., Senoh,A., Mizuguch
Sugiyama,T., Irie,R., Otsuki,T., Sato,H., Wakamat
Yamamoto,J., Isono,Y., Kawai-Hio,Y., Saito,K., Ni
Kimura,K., Yamashita,H., Matsuo,K., Nakamura,Y.,
Kikuchi,H., Kanda,K., Wagatsuma,M., Murakawa,K.,
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Homo sapiens cDNA FLJ36080 fi
to CLUSTERIN PRECURSOR.
AK093399
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                         Kikuchi, H., Kanda, K.,
Takahashi-Pujii, A., C
                                                                                                                                                                                    oligo capping; fis (
Homo sapiens (human)
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Jacobs, K., Mccoy, J.M., Laval
Treacy, M., Spaulding, V. and
Secreted expressed sequence
Patent: JP 2001519667-A 109
                                                                                                                                 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                          Homo sapiens
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C12N15/12, C12N5/10, C07K14/47, C12Q1/68, A61K38/17 CC Stran
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23-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KENNETH JACOBS, JOHN M MCCOY, EDWARD R LAVALLIB, LISA A RACIE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-APR-1998 JP 1998543069
10-APR-1997 US 08/838821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'opology: Linear;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          expressed sequence tags (sESTs).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism='Unidentified'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db_xref="taxon:32644"
114 c 150 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  organism="unidentified"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GI:22616902
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expressed sequence tags (SESTs)
Location/Qualifiers
1 .512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   type="genomic DNA"
                                                                                                                                                                                                     fis (full insert sequence)
        Oshima, A., Sugiyama, A., Kawakami, B., Suzuki, Y., K., Masuho, Y., Nagai, K. and Isogai, T.
                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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Pred. No. 31;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                       35
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                                                                 Senoh, A., Mizuguchi, H., Inagaki, H., Sato, H., Wakamatsu, A., Ishii, S., 150, Y., Saito, K., Nishikawa, T.,
                                                                                                                                                                                                                                                                  mRNA linear
clone TESTI2019872,
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                                                                                                                                                                                                                                                                  highly similar
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (04-JUL-2002) Takao Isogai, FLJ Project(HRI Team); 2-6-7 (Kazusa-Kamatari, Kisarazu, Chiba 292-0812, Japan (E-mail:genomics@hri.co.jp, Tel:81-38-52-3975, Fax:81-438-52-3986) NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology (RAB); cDNA library construction: Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB, HRI, and Biotechnology Center, National Institute of Technology and
                                                                                                                                                                                                                                                          Khare R. and Walia, N.K.
Proteins associated with cell growth,
Patent: WO 02072830-A 24 19-SEP-2002;
Incyte Genomics, Inc. (US)
                                                                                                                                                                                                                                                                                                                                 Yue,H., Yao,M.G., Ison,C.H., Lu,Y., Warren,B.A., Elliott,V.S., Baughn,M.R., Ding,L., Xu,Y., Gietzen,K.J., Tang,T.Y., Lal,P.G. Baughn,B.M., Burford,N., Lu,D.A., Richardson,T.W., Tran,U.K.,
                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 24 from Patent AX600212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Evaluation; clone selection for full insert sequencing: HRI and RAB; annotation: HRI and RAB.
Location/Qualifiers
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Isogai,T. and Yamamoto, J.
Direct Submission
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                                                      Similarity
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CAGCAGCAGAGTCTTCATCAT 21
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                                     Conservative
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                                                                                                                                                            /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                         1. .1589
                                                                                                                             /note="Incyte ID No: 7503618CB1"
421 c 466 g 295 t
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/clone_Tib="TESTI2"
/note="cloning_vector: pME188FL3"
456 c 410 g 285 t
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/mol_type="mRNA"

/db_xref="taxon:9606"
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Pred. No. 29;
                                                    Score 21; DB
Pred. No. 29;
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WO02072830.
                                     Mismatches
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AUTHORS
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AR208704/c
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HUMTRPM2A/c
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                                                                                                                                                                                                                                                                                    Molecular characterization of human TRPM-2/clusterin, a gene associated with sperm maturation, apoptosis and neurodegener. Bur. J. Biochem. 221 (3), 917-925 (1994)
                                                                                                                                                                                                                                                                                                                                                                                                            Genomic organization and expression of the rat gene, a gene implicated in apoptosis
J. Biol. Chem. 268 (7), 5021-5031 (1993)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 CAGCAGCAGAGTCTTCATCAT 21
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Monia, B.P. and Freier, S.M.
Antisense inhibition of clusterin expression
Patent: US 6383808-A 3.07-MAY-2002;
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AR208704
                                                                                                                                                                                                                                                                                                                                   Tenniswood, M.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             and Tenniswood, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRPM-2 protein
                                                                                                                                                                                                                                                                                                                                               Wong, P., Taillefer, D., Lakins, J., Pineault, J.,
                                                                                                                                                                                                                                                                                                                                                                                                 93186813
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/proteIn_id="AAB06508.1"
/db xxef="G1:339973"
/db xxef="G1:339973"
/db xxef="G1:339973"
/tashlation="MMKTLLLEVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNK
EIQNAVNGVKQIKTLIEKTNEERKTLLSNLEERAKKKEBDALMETRESETYLKELLEGVC
NETMMALWEBCKPCLKQTCMKFYARVCRSGSGLVGRQLEEFLNGSSPYYFMMAGDRID
                                                                                                                                                                                                                                         source text: Human cDNA to mRNA.
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488 c 440 g
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1. .1648
                                                                                                                                                                         organism="Homo sapiens"
                                                                                gene="TRPM-2"
codon_start=1
                                                                                                                                                                                                                        ocation/Qualifiers
                                                                                                                               gene="TRPM-2"
                                                                                                                                                                                                             . .1648
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100.0%; Pred. No.
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1651)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
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                                                                                                                                              CAGCAGCAGAGTCTTCATCAT 21
                                                                                                              CAGCAGCAGAGTCTTCATCAT 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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plasma componenet having a
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           1651 bp
13 from patent US 6383808.
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481 c 447 g 318 t
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GDDDRTVCRBIRHNSTGCLRMCOQCDKCRBILSVDCSTNNPSQAKLRRELDESLQVAE
RLTRKYNELLKSYQMKMLNTSSLLBQLMBQPNWVSRLANLTQGBDQYYLAVTTVASHT
                                                                                                                                                                                                                                                                                                                                     /translation="mktlllevgllltwesgqvlgdqtvsdnelqemsnqgskyvnke
IQNAVNGVKQIKTLIEKTNEERKTLLSNLEEAKKKKEDALNETRESETKLKELPGVCN
ETMALLWEECKPCLKQTCMKFYARVCRSGSGLVGRQLEEFLNQSSPFYFMMNGDRIDS
LLENDRQQTHMLDVMQDHFSBASSIIDELFQDRFFTKEPQDTYHYLPFSLFHRRPHFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /codon_start=1
/product="blood plasma componenet having a biological
/product="blood plasma componenet having a biological
activity of inhibiting cytolysis mediated by a cytolytic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TSDSDVPSGVTEVVVKLFDSDPITVTVPVEVSRKNPKFMETVAEKALQBYRKKHREE"
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                                                                                                                                                                                                                                                                                                                                                                                                           db_xref="SWISS-PROT:P10909"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                              db_xref="GI:579602"
                                                                                                                                                                                                                                                                                                                                                                                                                                           protein_id="CAA01560.1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          db_xref="taxon:9606"
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                                                                                                                                                                                                        Length 1651;
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                            linear
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REFERENCE
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TITLE
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HUMCLI/c
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KEYWORDS
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1 (bases 1 to 1651)
Jenne, D.B. and Tschopp, J.

Molecular structure and functional characterization of a human complement cytolysis inhibitor found in blood and seminal plasm complement of sulfated glycoprotein 2, a constituent of rat testing the sulfated glycoprotein 2, a constituent of the continuation of the continuation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               blood plasma glycoprotein; complement secretory glycoprotein; seminal plasma complement complex (C5b-9s) component.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Draft entry and computer-readable sequence for [1] kindly submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Original source text: Human (adult) liver,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Proc. Natl.
89386692
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Monia, B.P. and Freier, S.M.
Antisense inhibition of clusterin ex
Patent: US 6383808-A 13 07-MAY-2002;
Location/Qualifiers
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Mammalia; Butheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      M25915.1 GI:180619
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                                                                                                                               /translation="MKTLLLFVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNKE
IQNAVMGVKQIKTLIEKTNEERKTLLSNLEERAKKKEDALNETRESTTKLKELFGVCN
ETMAALMEECKPCLKQTCMKTYARVCNESGSGLVGRQLEEFLAQSS PF YFMANGDR I DS
LLENDRQQTHMLDVMQDHFSRASSIIDELFQDRFFTREPQDTYHYLFFSLFHRR PHFF
FFKSRLVRSLMFPSFYEFLKHATGCFLEMKDQCDKCREILSVDGSTNNFSQAKLRELDESLQVAE
RLTRKYNELLKSYQMKMLNTSSLLEQLMEQFMWSRLANLTQGEEDQYYLRUTTVASHT
SDSDVPSGYTEVVVKLFDSDFITVTVPVEVSRKNPKFMETVAEKALQEYRKKHREE"
/product="complement cytolysis inhibitor a-chain"
877. .1542
                                                                                                                                                                                                                                                                                                                                                                                   /codon start=1
/protein_id="AAA35692.1"
/db_xref="GI:180620"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/mol_type="mRNA"
                                                                          note="complement cytolysis inhibitor signal peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note="complement cytolysis inhibitor precursor"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  db_xref="taxon:9606"
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481 c 447 g
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Klausner, K.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.P., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.P., Jordan, H., Moore, T., Max, S.I., Mang, J., Hsieh, P., Diatchenko, L., Marusina, K., Parmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.B., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Scheetz, T.B., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J., Malek, J.A., Gunaratne, P.H., Richards, S., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Villalon, D.K., Muzny, D.M., Sodergren, B.J., Lu, X., Gibbs, R.A., Fahey, J., Halle, S., Garcia, A.M., Gay, L.J.; Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, B.J., Lu, X., Gibbs, R.A., Fahey, J., Hiting, M., Ketteman, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Rodrigues, S., Bukesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Schmerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Strausberg, R.L., Feingold, B.A., Wagner, L., Klausner, R.D., Collins, F.S., Wagner, L., Altschul, S.F., Zeeberg, B., Buetow, K.H., Altschul, S.F., Tardam H. Moore, T., Max, (
                                                                                                                                                                                     NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: David N. Louis, M.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genom
                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (19-DEC-2001) National Institutes of Health, Gene Collection (MGC), Cancer Genomics Office, National Institute, 31 Center Drive, Room 11A03, Bethesda, MD 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens clusterin (complement lysis inhibitor, SP-40,40, sulfated glycoprotein 2, testosterone-repressed prostate message 2, apolipoprotein J), mRNA (cDNA clone MGC:24903 IMAGE:4915444),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human and mouse cDNA sequences Proc. Natl. Acad. Sci. U.S.A.
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                                                  Gunaratne,
                                                                          Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: amg@bcm.tmc.edu
                                                                                                                                        Center code: BCM-HGSC
                                                                                                                                                                   DNA Sequencing by: Baylor 
Sequencing Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strausberg, R.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
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, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati, Gibbs, R.A.
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481 c     447 g     318 t
                                               P.H., Garcia, A.M., Lu,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peingold, B.A., Grouse, L.H., Derge, J.G.,
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Pred. No. 29;
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                                               X., Hulyk, S.W., Loulseged, H.,
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SP-40,40,
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Search completed: November Job time: 1412 secs

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1 CAGCAGCAGAGTCTTCATCAT
                                                                 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 4502904.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                through the I.M.A.G.E. Consortium/LLNL
Series: IRAK Plate: 29 Row: m Column:
This clone was selected for full lengt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Clone distribution: MGC clone distribution information can be found
                                                                                       Similarity
                                                                                                                                                                              423
                                                                 Conservative
                                                                                                                                                                                                                   EGDDDRTTVCREIRHNSTGCLRMKDQCDKCREILSVDCSTNNPSQAKLRRELDESLQVA
ERLTRKYNELLKSYQWKMLNTSSLLEQLNEQPNWVSRLANLTQGEDQYYLRVTTVASH
                                                                                                                                                                                                                                                                                        /translation="MMKTLLLPVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNK
EIQNAVNGVKQIKTLLEKTNSERKTLLSNLEEAKKKKEDALMSTRESSTKLKELPGVC
NETWALMEEKPCLKQTCMKFYARVCRSGSGLVGRQLEEFLNQSSPFYEMNNGDRID
SLLENDRQQTHMLDVMQDHFSRASSIIDELFQDRFFTREFQDTYHYLFFSLPHRRPHF
                                                                                                                                                                                                                                                                                                                                                                            sulfated glycoprotein 2, testomessage 2, apolipoprotein J) "
/protein id="AAH19588.1"
/db_xref="GI:18043615"
/db_xref="LocusID:1191"
                                                                                                                                                                                                 TSDSDVPSGVTEVVVKLPDSDPITVTVPVEVSRKNPKFMETVAEKALQEYRKKHREB*
                                                                                                                                                                                                                                                                ffpksrivrslmppspyeplnfhamfqpflemiheaqqamdihfhspapqhpptbfir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRPM2"
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/clone_lib="NCI_CGAP_Brn67"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'product="clusterin (complement lysis inhibitor,
sulfated glycoprotein 2, testosterone-repressed )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     codon_start=1
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| mol_type="mRNA"
| db_xref="taxon:9606"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               db_xref="MIM:185430"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note="synonyms: APOJ, CLI, SP-40, SGP-2; SGP2, TRPM-2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      note="Vector: pCMV-SPORT6"
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Gapop 10.0 , Gapext 1.0
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AUTHORS
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                                                                                                                  JOURNAL
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D.,
Emmert-Buck, M.D., Ph.D.
                                                                                                                                Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases: 1 to 46)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
cDNA Library Preparation: M. Bento Soares, Ph.D. CONA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CCAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                               Tumor Gene Index
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ens cDNA clone IMAGE:1473356 3'
[1] ;, mRNA sequence.
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AQ025388 EP(X)1109
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AU104442 AU104442
AZ305164 1M0005M08
AZ31559 1M0037N24
AA116347 mg70912.r
B1246596 602958318
BX285461 Arabidops
BH910804 SALK 0626
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H92446 YR69b05 1 1
H92446 YR69b05 1 1
T74174 YC60b12 81
AZ772648 1M0588N12
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AZ332831 1M0061C05

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             zc64e08.rl Soares fetal_heart_NDHH19W Homo mapiens cDNA clone IMAGE:327110 5' mimilar to gb:X15183_cdm1 HEAT SHOCK PROTEIN HSP
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Location/Qualifiers
                                                                                                                                    Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Insert Length: 596 Std Error: 0.00
Seg primer: mob.REGA+ET
                                                                                                                                                                                                                                                                                                                                                                                         The WashU-Merck EST Project
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Hillier, L., Clark, N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                    Tel: 314 286 1800
Pax: 314 286 1810
                                                                                                                                                                                                                                                                                                         Washington University School of Medicine
                                                                                                                                                                                                                                                                                                                                                      Contact: Wilson RK
                                                                                                                                                                                                                                                                                                                                                                        Unpublished
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//note="Organ: colon; Vector: pT773D-Pac (Pharmacia) with a modified polylinker; lst strand cDNA was prepared from colon adenocarcinoma, and was then primed with a Not I oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is mormalized. Library was constructed by Bento Soares and M. Fatima Bonaldo. "
             organism="Homo sapiens"
| mol_type="mRNA"
| db_xref="GDB:1261312"
                                                                                                   ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone="IMAGE:1473356"
/tissue_type="adenocarcinoma"
/lab_host="DH108"
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/db_xref="taxon:9606"
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xref="taxon:9606"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Class: TDNA tagged
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 858 453 4100 x1752 Fax: 858 558 6379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Salk Institute Genomic Analysis Laboratory (SIGnAL)
The Salk Institute for Biological Studies
10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Joseph R. Ecker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unpublished
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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
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, Jeske,A., Karnes,M., Kim,C.J., Parker,H.,
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                  /clone_lib="Ārabidopsis thaliana TDNA insertion lines"
/note="PCR was performed on Arabidopsis thaliana lines
each of which contains one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used can
be found at http://signal.salk.edu/tdna_protocols.html"
a 14 c 15 g 11 t
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                                                                                                                                                                                                                                                                                                                                          /organism="Arabidopsis thaliana"
|mol_type="genomic DNA"
|strain="Columbia 0"
|db_xref="taxon:3702"
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                                                                                                                                                                                                                                                                                                             clone="SALK_087727"
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Pred. No. 1.2e+04;
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Prednis, L.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    High quality sequence stop: 21.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seq primer: CACACAGGAAACAGCTATGACC Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Err
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 801 585 5606
Pax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,B., Pedersen,T., Reilly,M., Rose,M., Rope,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Plate: 0061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 pp DNA linear GSS 16 2M0061105R Mouse 10kb plasmid UUGCIM library Mus musculus clone UUGC2M0061105 R, genomic survey secmence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 GCAGCAGAGTCTTC 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
1 (bases 1 to 21)
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GSS.
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                               (http://www.lax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repeared with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gil 4732114 |gb|AF129072.1), a copy-number inducible derivative of plasmid Rl. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                        musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Biomedical Polymers Research Bldg., 20 S.
                                                                                                                                                                                                                                                                                                                                                                                                      /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"/clone_lib="Mouse_10kb_plasmid_UUGCIM_library"/note="Vector: PWD42nv; Purified_genomic_DNA_from_M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bex="Male
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               clone="UUGC2M0061I05"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mol_type="genomic DNA"
strain="C57BL/6J"
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Best Local
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AA973632
43 bp mRNA linear EST 17-JUJ
0048b04.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1569391
similar to SW:XPE_CERAB P33194 POSSIBLE DNA-REPAIR PROTEIN XP
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ORIGIN
1 CAGCAGCAGAGTCTTCATCAT 21
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The Salk Institute for Biological Studies
10010 N. Torrey Fines Road, La Jolla, CA 92037, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Arabidopsis Genome Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alonso, J.M., Leisse, T.J., Barajas, P., Chen, H., Cheuk, R., Gadrinab, C., Jeske, A., Karnes, M., Kim, C.J., Parker, H., Prednis, L., Shinn, J. Zimmerman, J. and Ecker, J.R.

A Sequence-Indexed Library of Insertion Mutations in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosid; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BH908888 41 bp DNA linear GSS SALK 051042.25.80.x Arabidopsis thaliana TDNA insertion Arabidopsis thaliana genomic clone SALK_051042.25.80.x,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This is single pass sequence recovered from the left border of TDNA. This sequence lies within an annotated exon of At5g58140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tel: 858 453 4100 x1752 Fax: 858 558 6379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Joseph R. Ecker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Arabidopsis thaliana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 CAGCAGCAGAGTCTTCATCAT 21
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                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ecker@salk.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TDNA tagged
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                                                                                                                                                                                     /clone="SALK 051042.25.80.x"
/clone=lb="Arabidopsis thaliana TDNA insertion lines"
/cotes="PCR was performed on Arabidopsis thaliana lines
each of which contains one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used or
be found at http://signal.salk.edu/tdna_protocols.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ocation/Qualifiers
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strain="Columbia
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76.2%;
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                                                                Score 13; DB 28;
Pred. No. 5.9e+04;
                                                                                                                                                         http://signal.salk.edu/tdna_protocols.html"
9 g 12 t 1 others
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                                                                                                                                                        Arabidopsis thaliana T-DNA genomic survey sequence. AL948370 AL948370.1 GI:24404992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Trace considered overall poor quality
Insert Length: 703 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
                                                                   Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
                                                                                                                                                                                                                                                                                                                                                                                                16;
             Strizhov, N., Li, Y., Rosso, M., Viehoever, P.,
and Weisshaar, B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Clone distribution: NCI-CGAP clone distribution found through the I.M.A.G.B. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Robert Strausberg, Ph:D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D.,
Emmert-Buck, M.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mRNA sequence.
AA973632
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Mammalia; Eutheria;
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VCI-CASP http://www.ncbi.nlm.nih.gov/ncicgap.
Vational Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Numor Gene Index
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                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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/notes="Organ: lung; Vector: pT7TiD-Pac (Pharmacia) with a modified polylinker; let strand cDNA was prepared from meuroendocrine lung carcinoid, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to EGo RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized. Library was constructed by Bento Soares and M. Patima Bonaldo. "

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mol_type="mRNA"
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lone="IMAGE:1569391"
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76.2%;
                                                II; Brassicales; Brassicaceae; Arabidopsis.
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A flanking
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               Dekker, K., Saedler, H.
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TITLE
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Email: trop@sanger.ac.uk
Sanger Xenopus tropicalis EST project 2001
TROPICALIS_SEQUENCE_ID: TGas034i01.sp6
                                                                                                                   Contact: Huckle B
Sanger Centre
                                                                                                                                                                                                                                                                                                                                                      Silurana tropicalis
                                                                                                                                                                                                                                                                                                                                                                                                                             AL649065
AL649065.1 GI:17658059
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                                                                                    Hinxton, Cambridgeshire,
                                                                                                                                                                       Unpublished
                                                                                                                                                                                          Huckle, E., Taylor, R., Ashurst, J.L., Sanger Xenopus tropicalis EST projec
                                                                                                                                                                                                                                                                                               Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                                                                                                                                                                                                                                                                                            Silurana tropicalis (western clawed frog)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Plant Genomics program designated 'GABI'. Information on availability can be found at: http://www.mpiz-koeln.mpg.de/GABI-Kat/:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              indicates an insertion close to or within gene At1g34110. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany This sequence is recovered from the left border of the T-DNA. It
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Strizhov, N., Li, Y.,
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/notes"PCR was performed on DNA from Arabidopsis thaliana
plants (T1) which were transformed with the T-DNA from
vector pAC161. The lines contain one or more T-DNA
insertions. The DNA fragment(s) resulting from the PCR
were directly sequenced to determine the genomic sequence
flanking the insertion. Sequences displaying significant
similarity to the A. thalaina nuclear genome sequence were
processed for submission. T-DNA derived sequences were
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/mol_type="genomic DNA"
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strain="Columbia 0"
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76.2%;
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on (GABI-Kat)
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AU107924 Sugano Homo sap:
HRC02185, mRNA sequence.
AU107924
AU107924
AU107924.1 GI:13557446
EST.
                                    14;
                                                                                                                                                                                                                             Department of Virology
Department of Virology
A-6-1, Shirokanedal, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched CDNA library. Gene 200 (1-2), 149-156 (1997).
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                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 50)
Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hai, Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14;
                                                                                                                                                                                                                                                                                                                                                         Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
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EMBO Rep. 2 (5), 388-393 (2)
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This sequence is from a Xenopus
constructed by Aaron M. Zorn.
        AGCAGCAGAGTCTTCA 17
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                                                                                                              /clone_lib="Sugano Homo sapiens cDNA library" 15 c 21 g 4 t
                                                                                                                                                 /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="HRC02185"
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//clone="Vector: pCS107; Site 1: EcoRI; Site 2: NotI, cDN/
/note="Vector: pCS107; Site 1: EcoRI, Site 2: NotI, cDN/
was oligo dT primed from Sug of poly A+ RNA from stages
10-13 gastrulae. EcoRI NotI cut cDNA was then ligated
into pCS107 with EcoRI at the 5' end and NotI at the 3'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dev_stage="gastrula (stages 10.5-13 mixed)"
/lab_host="Escherichia_coli XL1-blue"
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clone="TGas034i01"
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mol_type="mRNA"
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                                                   Score 12.8; DB 9;
Pred. No. 8.1e+04;
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Pred. No. 7.7e+04;
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1 (bases 1 to 50)
Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale EMBO Rep. 2 (5), 388-393 (2001)
11375929
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                                                                                                                                                                                                                                                                                                                                                         AU107928 Sugano Homo sapiens
ZRV62348, mRNA sequence.
AU107928
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                                                                                                                                                                                                                                                              Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

Location/Qualifiers
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Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Ha, H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakak,Y., Nakamura,Y., Suyama,A. and Sugano,S.

Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites

EMBO Rep. 2 (5), 388-393 (2001)
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="HSI06916"
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Pred. No. 8.1e+04;
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                                                                                                                                                                                                                                                                                                                                                                  Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
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Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
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AU107929 mRNA sequence.
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1 (bases 1 to 50)
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Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Yutaka Suzuki
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Homo sapiens
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                                            AGCAGCAGAGTCTTCA 17
                    AGCAGCAGAGTCCGCA 44
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/mol_type="mRNA"
/db_xref="taxon:9606"
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/mol_type="mRNA"
/db_xref="taxon:9606"
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Pred. No. 8.1e+04;
                                                                                                                   Score 12.8; DB 9;
Pred. No. 8.1e+04;
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                            38
A1766391 43 bp mRNA linear EST 20-DEC-1999 wh61d04 x1 NCT CGAP Kid11 Homo sapiens cDNA clone IMAGE:2385223 3' similar to SW:COX2_HUMAN P00403 CYTOCHROME C OXIDASE POLYPEPTIDE II
                                                                                                                                                                                                                                              15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany This sequence is recovered from the left border of the T-DNA. It indicates an insertion within the locus defined by clone t1097. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program designated 'GABI'. Information on line availability can be found at:

http://www.mpiz-koeln.mpg.de/GABI-Kat/.
                                                                                                                                                                                                 2 AGCAGCAGAGTCTTCATCA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rosso,M., Strizhov,N., Li,Y., Reiss,B., Dekker,K. and Weisshaar,B. A new Arabidopsis thaliana T-DNA mutagenised population (GABI-Kat) for flanking sequence tag based reverse genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 (bases 1 to 39)
Rosso, M., Li, Y., S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AL760945.1 GI:21501350 GSS.
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39 bp DNA linear GSS 18-JUN Arabidopsis thaliana T-DNA flanking sequence GK-204B10-014508,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (17-JUN-2002) Weisshaar B., Max-Planck-Institut fuer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and Weisshaar, B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Strizhov, N., Li, Y., Rosso, M., Viehoever, P., Dekker, K., Saedler, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Arabidopsis thaliana
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     genomic survey sequence.
                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A pipeline for automated high-throughput generation of FSTs (flanking sequence tags) from Arabidopsis thaliana T-DNA
                                                                                                                                                       AGCGGCAGAGTGTTCTCCA 20
                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                  removed"
a 12 c
                                                                                                                                                                                                                                                                                                                                                                                      /clone_lib="Arabidopsis thaliana T-DNA insertion lines" /note="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pAC161. The lines contain one or more T-DNA insertions: The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. Sequences displaying significant similarity to the A. thalaina nuclear genome sequence were processed for submission. T-DNA derived sequences were
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        organism="Arabidopsis thaliana"
|mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'db_xref="taxon:3702"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  strain="Columbia 0"
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                                                                                                                                                                                                                                                                60.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      type="genomic
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Pred. No. 8.6e+04;
0; Mismatches 4
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AUTHORS
TITLE
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                  32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15;
                                                                                                                                                                                                                                AA561123 . 46 bp mRNA linear EST 18-AUG-199: V141C01.r1 Stratagene mouse skin (#937313) Mus musculus cDNA clone IMAGE:974784 5' similar to TR:G972037 G972037 SUCCINATE
                                                                                                                                                                                                                                                                                                                                                                                                                         1. CAGCAGCAGAGTCTTCATC 19
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus 1 (bases 1 to 46) Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T
                                                                                                  Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     High
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Seq primer: -40UP from Gibco
                                                                                                                                                                                                         DEHYDROGENASE ;, mRNA sequence
                                                                                                                                                                                                                                                                                    AA561123
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                                                                                                                                                                      AA561123.1 GI:2332588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cDNA Library Preparation: M. Bento Soares, Ph.D. cDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.B. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tissue Procurement: Christopher Moskaluk, M.D., Emmert-Buck, M.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 43)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
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AI766391
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/note="Organ: kIdney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Plasmid DNA from the normalized library NCI CGAP Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-132391, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2385223"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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Pred. No. 9.1e+04;
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    Dietrich, N., Dubuque, T.
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46 CAGCATCAGATTCTGCAGC 28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J. Schellenberg, K., Steptoe, M., Tan, F., Underwood, Theising, B., Wylie, T., Lennon, G., Soares, B., Wiwaterston, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              High quality sequence stop: 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Marra M/Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The WashU-HHMI Mouse EST Project
                                                                                                                       Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: mouseest@watson.wustl.edu
                                                                                            60.0%;
llarity 78.9%;
Conservative
                                                                                                                                                                                                                    11
                                                                                                                                                                                                                                     /clone lib="Stratagene mouse skin (#937313)"
/note="Organ: skin; Vector: pBluescript SK; Site 1: Ecc; Site 2: XhoI; Cloned unidirectionally. Primer: Oligo dT. Whole skin from 11 week old C57BL/6 female mice. Average insert size: 1.0 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5' GARTTTTTTTTTTTTTTTTT 3'"
sequence: 5' CTCGAGTTTTTTTTTTTTTTTTTTT 3'"
                                                                                                                                                                                                                                                                                                                                                                                                          'tissue_type="whole skin"
'dev_stage="11 weeks old"
'lab_host="SOLR (kanamycin resistant)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sex="females"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           clone="IMAGE: 974784"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  db_xref="taxon:10090"
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strain="C57BL/6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        organism="Mus musculus"
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                                                                                                                Score 12.6; DB 9; Length 46; Pred. No. 9.5e+04;
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score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

#### Query Match Length DB BD101829 AR234673 AR252583 AX080828 AX268965 AR0700795 AR258163 AX6700795 A76303 A08499 A12569 A12570 AR285167 AR2815167 AR2815167 AR2815167 AR2815167 AR2815167 AR2815167 AR281518 AR697096 A70102 AR697096 A70102 AR697096 AR70102 AR697096 AR70102 AR70102 AR70102 AR701084 BD077090 AR697094 AR709133 AR670814 AR233374 AR233374 AR233374 AR233374 AX403425 AR221109 A76301 B01067 A08489 A12568 A05116 A76303. Sequence 9 A08490 oligonucleo A08491 oligonucleo A12569 fragment of A12570 fragment of AR085567 Sequence AX697095 Sequence AX697095 Sequence AX697095 Sequence AX697090 Sequence A70102 Sequence A70102 Sequence A70102 Sequence A70103 Sequence AR148235 Sequence AR240404 Sequence BD077090 Lipocalin AR291280 Sequence AR092800 Sequence AR092800 Sequence AR092800 Sequence AR092801 Sequence AR092801 Sequence AR092801 Sequence AR092802 Sequence AR092802 Sequence AR092802 Sequence AR092803 Sequence AR092803 Sequence AR092803 Sequence AR233374 Sequence AX233374 Sequence BD101829 Process f AR234673 Sequence AR252583 Sequence AX080828 Sequence AX403425 Sequence AR221109 Sequence AR045234 Sequence A05116 Oligonucleo AX268965 Sequence AX118356 Sequence AX070079 Sequence AR258163 Sequence AX670795 Sequence B01067 DNA sequenc A08489 B.taurus ge A12568 fragment of A05116 Oligonucleo AR274120 Sequence A76301 Sequence 7 Description Sequence 27 Sequence Method fo

ALIGNMENTS

TITLE JOURNAL FEATURES	ŝ	REFERENCE	-	ORGANISM	SOURCE	KEYWORDS	VERSION	ACCESSION	DEFINITION	Locus	AR274120	*******
Maize Gos-2 promoters Patent: US 6504083-A 6 07-JAN-2003; Location/Qualifiers	Barbour, E., Meyer, T.E.C: and Saad, M.E.	1 (bases 1 to 32)	Unclassified.	Unknown.	Unknown.	•	AR274120.1 GI:29706097	AR274120	6 from patent US 6504083.	AR274120 32 bp DNA		
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										PAT 10-APR-2003		

Pred. No.

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Sequence 7 from Patent WO9319173.
A76301
                                                       1 (bases 1 to 48)
Takiguchi,H., Furukawa,H. and Tani,T.
Takiguchi,H., Furukawa,H. and Tani,T.
Takiguchi,H., Furukawa,H. and Tani,T.
PRODUCTION OF PANCERAS ELASTASE
Patent: JP 1987000276-A 9 06-JAN-1987;
PATENT: JP 1987000276-A 9 06-JAN-1987;
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18; Conservative
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           homo sapiens (human)
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06-JAN-1987
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25-JUN-1985 JP 1985138494
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12 c 6 g
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/db_xref="GI:6088389"
/translation="MYKILLLALVPSLAHA"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            note="unnamed protein product"
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/db_xref="taxon:32644"
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Pred. No. 7.6e+03;
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                        4 CAGCAGAGTCTTCATCA 20
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topology: Linear;
hypothetical: No;
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Key Location/Qualifiers
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/product="somatotropin"
/protein_id="CAAQO787.1"
/db_xref="GI:410774"
/db_xref="SWISS-PROT:P01246"
/translation="LOFLSRVFTNSLV"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
13 c 14 g 1
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peptide'.
Location/Qualifiers
                                                                                                                                                                                              /db_xref="taxon:9913"
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                                                          73.3%;
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Sequence 46 from Patent W00175165.
AX268965 GI:16541984
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent: WO 8805078-A 13 14-JUL-1988;
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Location/Qualifiers
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/db_17 c 10 g 10 t
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/mol_type="genomic DNA"
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                                                                                                                                                                                                                                                                                                                                            73.3%; Score 15.4; DB 6;
94.1%; Pred. No. 1.8e+04;
cive 0; Mismatches 1
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Pred. No. 1.9e+04;
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LOCUS DEFINITION ACCESSION VERSION

AR070079 Sequence 35 AR070079 AR070079.1

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31 bp 5891716.

linear

PAT 18-FEB-2000

GI:7220967 from patent US

REFERENCE

(bases 1 to 31)

SOURCE

ORGANISM

Unknown

Unknown. Unclassified

**CEYWORDS** 

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RESULT 9
AR070079/c
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AUTHORS
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Sequence
AX118356
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Genotyping reagents, kits and methods of use thereof
Patent: WO 0129262-A 3479 26-APR-2001;
Orchid BioSciences, Inc. (US)
Location/Qualifiers
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synthetic construct
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3479 from Patent WO0129262.
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8 c 4 g
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/mol_type="genomic DNA"
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/noTe="Primer"
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/note="forward primer 662F"
8 c 3 g 5 t
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Pred. No. 3
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Pred. No. 2.4e+04;
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  16; Conserv
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Morgenstern, J.P., Blzinkauskas, C.B., Konieczny, A. and Brauer, A.W.
Morgenstern, J.P., Blzinkauskas, C.B., Konieczny, A. and Brauer, A.W.
Allergenic proteins and peptides from dog dander and uses therefor
Patent: US 6489118-A 35 03-DEC-2002;
Location/Qualifiers
                                                                                                                              Morgenstern, J.P., Konieczny, A., Bizinkauskas, C.B. Allergenic proteins and peptides from dog dander a Patent: EP 1277764-A 35 22-JAN-2003, Immulogic Pharmaceutical Corporation (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Allergenic proteins and peptides from dog Patent: US 5891716-A 35 06-APR-1999; Location/Qualifiers
                                                                                                                                                                                                       unidentified unidentified
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                                                                                                                                                                  Morgenstern, J.P.,
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13 c 5 g
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13 c 5 g
                                                       /organism="unidentified"
/mol_type="genbmic DNA"
/db_xref="taxon:32644"
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                                                                                                                    ocation/Qualifiers
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Matches 15
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Sequence 9 from Patent WO9319173.
A76303
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                                                                                                                                                                                    artificial sequences.

1 (bases 1 to 39)
Harbour,G.C., Hoogerheide,J.G. and Garlick,R.L.
Enhanced bioactivity of mammalian somatotropin through selective
                                                                                                                                                                                                                                                                                                       oligonucleotide 3.
                                                                                                                                                        Patent: EP 0263206-A 6 13-APR-1988;
THE UPJOHN COMPANY
                                                                                                                                                                                                                                                      synthetic construct
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unidentified
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CAGCAGAGTCTTCATC 19
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                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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/translation="MVKILVLALVFSLAHA"
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mol_type="genomic DNA"
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                                 Score 14.4; DB 6;
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68.6%; Score 14.4; DB 6; Length 39;
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atches 15; Conservative 0; Mismatches 1; Indels
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1 (bases 1 to 39)
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4 CAGCAGAGTCTTCATC 19
                                                                                                                                                                                         Patent: WO 8701708-A 6 26-MAR-1987;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                             39 bp fragment of synthetic somatotropin.
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Patent: EP 0263206-A 7 13-APR-1988;
THE UPJOHN COMPANY
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(bases 1 to 39)

Harbour, G.C., Hoogerheide, J.G. and Garlick, R.L.

Snhanced bloactivity of mammalian somatotropin through selective
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Copyright (c) 1993 - 2003 Compugen Ltd.
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           Gos-2 promoter gen
Human mature inter
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                                                                                                                                         Description
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Interleukin-18 bin
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                                                                                                                                                                                                                                                                                          Human; testosterone-repressed prostate message-2; TRPM-2; clusterin; sulfated glycoprotein-2; SGP-2; cancer; antisense oligonucleotide; ss
                                                                                                                                                                                                                                                                                                                                        Human testosterone-repressed prostate message-2 antisense oligo #2.
                                                                                                                                                                                                                                                                                                                                                                                                           AAA94226;
                                                                                                                                                                                                                                                                                                                                                                              12-JAN-2001
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Cyclin-dependent k	AAX25040	20	32	64.8	13.6	Ç.
Annealing oligonuc	AAO40995	14	27	•	13.6	4.
O RT-PCR prim	ABK10729	24	24	64.8	13.6	ω
	AAA89796	21	23	64.8	13.6	N
Human PARP-1 antis	AAS45666	22	20	64.8	13.6	_
PCR primer used to	AAX95224	20	20	64.8	13.6	.0
Corneodesmosin sin	AAS43508	22	50	65.7	•	9
Modified Gcc donor	AAF28289	22	41	65.7	•	8
IL-11-IqG4-Fc dire	AAF56658	22	36	65.7	13.8	7
1	AAF56656	22	36	65.7		σ
Human interleukin-	AAF56654	22	36	65.7	٠	5
Human interleukin-	AAF56649	22	36	65.7	•	4.
PCR primer Lam B8	AAQ47780	14	31	65.7		ω
	AAF28287	22	30	65.7	13.8	N
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G-alpha-	AAZ57675	21	18	•		0
a primer 3	AAT86354	18	34	•		φ
lipocalin	AAX19511	20	30	•		æ
r #41 use	AAF54315	22	26	•	٠	7
PRO1283	AAA37209	21	26		•	σ
	AAC58495	21	26		•	Ŋ
	AAF73404	22	2	67.6	14.2	4.
Oligonucleotide de	AAX08676	20	24			ω
	AAF54314	22	22	•		N
Human PRO1283 forw	AAA37208	21	22	•	-	_
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Plasmolemma regula	AAH79384	2 2	4		14.0	n ü
7	ABK49118	24	3	•	4	ם, ר
	ABL61345	24	24	•	4	·
ense leader e	AAQ69972	15	ű	70.5	14.8	N
	AAZ12445	20	30	70.5		<u>`</u>
	AAH40683	22	27		14.8	0
Murine testosteron	AAA94224	21	21	•	14.8	9
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### ALIGNMENTS

(first entry)

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Treating prostatic tumors and renal cancers by antisense inhibition of the testosterone-repressed prostate messenger-2 gene -	WPT; 2000-533132/48.	Gleave M, Rennie PS, Miyake H, Nelson C;	(UYBR-) UNIV BRITISH COLUMBIA.	26-FEB-1999; 99US-0121726.	25-FBB-2000; 2000WO-US04875.	31-AUG-2000.	WO200049937-A2.	Homo sapiens.	

Claim 3; Page 36; 38pp; English.

The present sequence is an antisense oligonucleotide directed at the human testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SGP-2). The sequence was shown to promote the regression of tumours, and oligonucleotides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the chemosensitivity of the cells, meaning that conventional chemotherapy is

Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 other;

datches Duery Match Local Similarity 21, Conservative ' 100.01; 0; Mismatches Score 21; DB Pred. No. 3.9; 21; Length 21; Indels 0 Gaps

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1 CAGCAGCAGAGTCTTCATCAT 21

3ULT 2 (24790/c AAX24790 standard; DNA; 50 BP. CAGCAGCAGAGTCTTCATCAT 21

AAX24790;

21-JUN-1999 (first entry)

Interleukin-18 binding protein splice variant IL-18BPa PCR primer.

Interleukin-18 binding protein; IL-18BP; IL-18BPa; splice variant; human; autoimmune disease; inflammation; diabetes; pancreatitis; rheumatoid arthritis; graft rejection; sepsis; chronic hepatitis; psoriasis; inflammatory bowel disease; multiple sclerosis; ischemic heart disease; ischemic brain injury; gene therapy; PCR; primer; ss.

Synthetic.

Homo sapiens

WO9909063-A1

25-FEB-1999

13-AUG-1998; 98WO-IL00379

22-JUL-1998; 14-AUG-1997; 27-AUG-1997; 98IL-0125463. 97IL-0121554. 97IL-0121639. 97IL-0121860.

(YEDA ) YEDA RES & DEV CO LTD

06-NOV-1997;

97IL-0122134.

Dinarello C, Kim SH, Novick D, Rubinstein

New interleukin-18 binding protein - useful for treation diseases, including autoimmune disease and inflammation - useful for treating human

Example 7; Page 39; 100pp; English.

The present sequence is a reverse primer that was used with a forward primer (see AAX24754) in the PCR amplification of the coding region of a cDNA·clone (see AAX24749) coding for human interleukin-18 binding protein splice variant II-18BPa (see AAW98004). The PCR products were cut with XbaI and cloned into the XbaI site of the pBFP-BOS expression vector. IL-BP18a was expressed in transfected

RESULT 3
AAA09140
ID AAA0
XX A 밁 ફ នន្តន្តន្តន្តន្ត្ Matches Query Match Novel maize promoters (AAA09134-37) that drive expression of actin-2, enclase, Gos-2 or L41, respectively, were isolated from genomic DNA using PCR. The first round of PCR was performed on each DNA sample using PCR. The first round of PCR was performed on each DNA sample with Clontech primer AP1 (AAA09138) and a gene-specific primer 1 (AAA09139-42). In a second round of PCR using Clontech primer AP2 (AAA09143) and a gene-specific primer 2 (AAA09144-47). Clones were sequenced for verification and then amplified with Clontech primer AP3 (AAA09148) and a gene-specific primer (AAA09149-52). The promoters are used for regulating the expression of heterologous nucleotide sequences to vary the phenotype of a plant, e.g. modifying fatty acid composition, altering amino acid content and altering the pathogen defense system of the plant. Plants comprising important commercial traits can be maize; promoter; actin-2; enolase; Gos-2; L41; gene regulation; plant transformation; primer; ss. COS7 cells. The invention provides IL-18BP polypeptides capable of binding IL-18 and/or modulating and/or blocking IL-18 activity. These can be used to treat conditions requiring protein (claimed), such as autoimmune diseases, type I diabetes, rheumatoid arthritis, graft rejections, inflammatory bowel disease, sepsis, multiple sclerosis, ischemic heart diseases, ischemic brain injury, charities sclerosis, ischemic heart diseases, ischemic brain injury, Novel maize promoters used for producing transgenic plants with regulated expression of heterologous nucleotide sequences 06-OCT-1998; 05-NOV-1998; 05-OCT-1999; AAA09140 standard; DNA; 32 Example 1; Page 26; 48pp; English. Barbour B, 13-APR-2000. Gos-2 promoter gene-specific primer 1. 10-AUG-2000 WO200020571-A2 AAA09140 Sequence 50 BP; 13 A; 8 C; 13 G; 16 T; 0 other; chronic hepatitis, psoriasis, and chronic/acute pancreatitis. (PION-) PIONEER HI-BRED INT INC Local Similarity 42 19; Conservative AGERI AGRIC GENETIC ENG RES INST. CAGCAGCAGGGTCATCATCAT 22 CAGCAGCAGAGTCTTCATCAT 21 Meyer TE, (first entry) 98US-0103294. 98US-0107201. 99WO-US23081 90.5%; 0; Mismatches Score 17.8; DB 2 Pred. No. 1.2e+02 DB 20; Indels Length expression; 0, Gaps

Sequence 32

BP; 8

A; 12 C;

6 G; 6 T; 0 other;

Score 16.2; DB 21; Length 32;

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atches
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Matches 18; Conservative
                                              AAS15291;
                                                                                                                                                                                                                                            Sequence 50 BP; 7 A; 11 C; 18 G; 14 T; 0 other;
                                                                                                                                                                                                                                                                The invention relates to novel interleukin 18 (IL-18)-binding proteins from humans or mice which act as regulators and drugs for sensitivity diseases and organ rejection and in treating diseases due to excess immune reaction, e.g. in slowing down rejection after organ transplant, and in treating autoimmune diseases. This sequence represents a PCR primer used to isolate the coding sequence for the human mature interleukin 12 binding protein (AAAI1002).
                                                                       AAS15291 standard;
                                                                                                                                                                                                                                                                                                                                                                                                               Interleukin 18-binding protein with activity of regulating physiological actions of interleukin 18, useful as regulator and drug for sensitivity diseases and organ rejection and in treating diseases
                                                                                                                                                                                                                                                                                                                                                                            Example 2; Page 22; 71pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Torigoe K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-SEP-1998,
18-NOV-1998,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      regulator; drug; sensitivity disease; organ autoimmune disease; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immunosuppressant; interleukin 18 binding protein; IL18-BP; human; mouse; regulator; drug; sensitivity disease; organ rejection; organ transplant;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (HAYB ) HAYASHIBARA SEIBUTSU KAGAKU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human mature
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   interleukin 18 binding protein coding sequence
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98JP-0327914.
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                                                                      DNA;
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85.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                      0
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RESULT 6
AAZ96146/c
ID AAZ961
XX AAZ961
XC
AC AAZ961
XX
DT 10-APR
XX
DE Polynu
XX
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16-JAN-2002

(first entry)

Polynucleotide sequence including binding site for BamHI.

10-APR-2000

(first entry)

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Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    reduce levels of these markers significantly, in the affected region, relative to controls. The markers are interleukin-1beta (IL-1b), tumour necrosis factoralpha (TMFalpha), macrophage inflammatory protein-lalpha (MIP-lalpha), glial fibrillar associated protein (GFAP), MHC (major histocompatibilty complex) IIalpha or II L, CD86, fractalkane or CX3CR1 (a receptor for fractalkane). The method is used to identify compounds useful in treatment or prevention of Alzheimer's disease or other neurodegenerative diseases that have an inflammatory component. The
AAZ96146;
                                                       AAZ96146 standard; DNA; 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    method provides fast, accurate and quantitative drug screens. The present sequence is a PCR primer used to determine the level of a transcript for an efficacy marker in a transgenic mouse which overexpresses APP and displays Alzheimer's like neuropathy. The efficacy markers are VitD3-240Hase, MCP-1, II-10, II-12 p40, #1/#2, IFN-gamma #1/#2, CD3 epsilon, CD4 #1/#2, IgG-1, Ig k (light chain).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates selecting compounds that reduce symptoms of Alzheimer's disease using a non-human mammal that has been subjected cerebral ischaemia or lesion of a nerve so as to produce, in the affected region, increased levels of specific markers of Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           disease, from their abilimarkers in animal models
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Selecting compounds useful for treating or preventing Alzheimer's disease, from their ability to reduce levels of specific disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disease-associated inflammation. Test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TNFalpha; macrophage inflammatory protein-lalpha; MIP-lalpha; fractalkane; glial fibrillar associated protein; GFAP; MMC; CX3CR1; CD86; major histocompatibilty complex; Alzheimer's disease; cerebral ischaemia; neurodegenerative disease; VitD3-24OHase; MCP-1; IL-10; IL-12 p40; IFN-gamma; CD3 epsilon; CD4; IgG-1; Ig k; osteopontin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 5; Page 23; 36pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-639367/73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAR-2000; 2000US-193847P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-MAR-2001; 2001WO-US10247.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200175165-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mouse IL-12 p40 #1 PCR primer 662F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ELAN-) ELAN PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ss; PCR primer; nootropic; neuroprotective; flammatory; interleukin-lbeta; IL-lb; tumour
                                                                                                                                                                                                                                                           CAGCAGCAGAGTCTTCATCA 20
                                                                                                                                                                                                                 CAGCACCAGCTTCTTCATCA 21
                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 6 A; 8 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Games
                                                                                                                                                                                                                                                                                                                                                                          85.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ğ
                                                          ₿P
                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yednock TA,
                                                                                                                                                                                                                                                                                                                                                                    Score 15.2; DB 22; Pred. No. 1.6e+03;
                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          compounds are selected if they
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hua T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Messersmith E, Bard
                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            662F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  necrosis factoralpha;
                                                                                                                                                                                                                                                                                                                                                                                                 22;
                                                                                                                                                                                                                                                                                                                                   ٥,
                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ţ.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the same polynucleotide ligand binding site and a randomly synthesised sequence flanking the binding site; (ii) exposing the duplex to a ligand selective for the binding site; (ii) isolating duplexes which bind or do not bind the ligand, and (iv) determining the nucleotide composition of the flanking duplex sequence by sequencing the duplex sequence adjacent to the binding site. The invention is used to modulate the ligand-binding characteristics of any nucleotide sequence: The invention is less costly and more efficient than prior art techniques that moderate ligand binding using small molecule pharmaceuticals. Sequences had an 295762-296170 represent polynucleotide sequences including the binding
                                                                                                                                                                                                Hexapetoloid duplicon inclusion transferase 14.96; transferase; enzyme; tumour; haemopathy; HIV infection; immunological disease; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention provides a method for determining the sequence of polynucleotide flanking regions that modulate ligand binding characteristics of an adjacent binding site. The method comprises:
05-JUN-2002
                                                      CN1352267-A.
                                                                                                            Unidentified
                                                                                                                                                                     cytostatic; anti-HIV;
                                                                                                                                                                                                                                                                                  Hexapetoloid duplicon inclusion transferase 14.96 PCR primer #3
                                                                                                                                                                                                                                                                                                                                              18-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                    ABQ80863;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABQ80863 standard; DNA; 33 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 40 BP; 6 A; 5 C; 19 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 45; 62pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Modulating polynucleotide ligand binding site affinity using determination of the flanking duplex sequences -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lane MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-JUN-1998,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ligand binding; restriction enzyme; nucleic acid determination; pharmaceutical; BamHI; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        site for the restriction enzyme BamHI and used in the course of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9963077-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (TMTE-) TM TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         providing a number of different duplex polynucleotides, each having
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 CAGCAGCAGAGTCTTCATCA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Benight AS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0087905.
99US-0324672.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99WO-US12516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   85.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              72.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Paldasz
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.2; DB.21; Pred. No. 1.7e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                               immunological dis
ory; PCR; primer;
                                                                                                                                                                                          disease; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>..</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                               Key
modified_base
Example 1; Page 35; 38pp; English.
                     Treating prostatic tumors and renal cancers by antisense inhibition the testosterone-repressed prostate messenger-2 gene -
                                                                                                                                                                                                                                                                                                                           Mouse; testosterone-repressed prostate message-2; TRPM-2; clusterin; sulfated glycoprotein-2; SGP-2; cancer; antisense oligonucleotide; ss
                                                                                                                                                                                                                                                                                                                                                              Murine testosterone-repressed prostate message-2 antisense oligo #1
                                                                                                                                                                                                                                                                                                                                                                                                                                        AAA94223 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New hexapetoloid duplicon inclusion transferase 14.96 polypeptide for treating malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and various inflammations -
                                                           WPI; 2000-533132/48.
                                                                                 Gleave M,
                                                                                                                                 26-FEB-1999;
                                                                                                                                                        25-FEB-2000; 2000WO-US04875
                                                                                                                                                                                 31-AUG-2000.
                                                                                                                                                                                                        WO200049937-A2
                                                                                                                                                                                                                                                                                                      Mus sp
                                                                                                                                                                                                                                                                                                                                                                                          12-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                  AAA94223;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 33 BP; 10 A; 8 C; 7 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to hexapetoloid duplicon inclusion transferase 14.96 (see ABQ80860 and ABB98545). The transferase and coding sequence are useful for treating various diseases, such as malignant tuncurs, haemopathy, HIV infection, immunological disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mao Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-NOV-2000; 2000CN-0127170
                                                                                                         (UYBR-) UNIV BRITISH COLUMBIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           was used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 4; Page 18 (Disclosure); 33pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-628715/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-NOV-2000; 2000CN-0127170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BODE-) BODE GENE DEV CO LTD SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGAGTCTTCATCAT 21
                                                                                 Rennie PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammations.
an example from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                 99US-0121726.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         flammations. The present sequence is a PCR primer, which example from the invention.
                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                         '*tag= a
'mod_base= OTHER
                                                                                                                                                                                                                              note= "phosphorothicate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           71.4%;
                                                                                 Miyake H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                 Nelson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2.1e+03;
                                                                                 Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immunological diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                 œ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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The present sequence is an antisense oligonucleotide directed at the murine testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SGP-2). The sequence was shown to promote the regression of tumours in mice, and oligonucleotides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the some breast cancer cells. In addition to thi chemosensitivity of the cells, meaning that more effective conventional chemotherapy 18

Sequence 21 BP; 7 A; 5 C; 5 G; 4 T; 0 other;

Matches Best Local Similarity Query Match 16, Conservative 70.5**%**; 0; Score 14.8; DB 21 Pred. No. 2.4e+03; Mismatches Indels Length 21; 0 Gaps

0,

CAGCAGCAGAGTCTTCAT 18 CAGCAGGAGAATCTTCAT 21

AAA94224 standard; DNA; 21 BP

AAA94224;

12-JAN-2001 (first entry)

Murine testosterone-repressed prostate message-2 antisense control.

Mouse; testosterone-repressed sulfated glycoprotein-2; SGP-2 SGP-2; prostate message-2; cancer; oligonucleotide; ss TRPM-2; clusterin;

de enw

WO200049937-A2

31-AUG-2000.

25-FEB-2000; 2000WO-US04875

26-FEB-1999; 99US-0121726

(UYBR-) UNIV BRITISH COLUMBIA

Rennie PS, Miyake H, Nelson C;

WPI; 2000-533132/48.

Treating prostatic tumors and renal cancers by antisense inhibition the testosterone-repressed prostate messenger:2 gene -

Example 1; Page 35; 38pp; English.

oligonucleotide directed at the murine testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SGP-2). The antisense sequence was shown to promote the regression of tumours in mice, and similar oligonucleotides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the chemosensitivity of The present sequence is a mismatch control used with an antisense oligonucleotide directed at the murine testosterone-repressed pro meaning that conventional chemotherapy is more effective

Sequence 21 BP; 6 A; 6 C; 5 G; 4 T; 0 other;

latches nery Match Local 16; Similarity Conservative 70.5**%**; 0 Score 14.8; Pred. No. 2. Mismatches 2.4e+03; DB 21; 2 Length Indels 21; 0 Gaps

0

CAGCAGCAGAGTCTTCAT 18

```
밁
4
CAGCAGCAGGATCTTCAT 21
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RESULT 10 AAH40683/c

AAH40683 standard; DNA; 27

AAH40683;

14-AUG-2001 (first entry)

数数数器 SNP specific SNPB primer SEQ ID 3479.

Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis; SNPE; genotyping; Single nucleotide polymorphism; inflammation; forensic investigation; paternity agammaglobulinaemia; SNP; single nucleotide primer extension; naemia; diabetes insipidus; cancer;

Homo sapiens.

XBXBX8X**X**X**X**X

WO200129262-A2.

26-APR-2001.

13-OCT-2000; 2000WO-US28436.

15-OCT-1999; 99US-0160096.

(ORCH-) ORCHID BIOSCIENCES INC.

Picoult-Newburg L, Pohl M;

acid sample New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nucleic

Claim 1; Page 67; 83pp; English.

cc includes kits for determining the presence or absence of a SNP, using the Cc oligonuclectides of the invention. The PCR primers are used to amplify a CC SNP flanking sequence, the SNPs primer is used as a genotyping primer. CC The oligonucleotides are useful for genotyping a nucleic acid sample by coligonucleotides are useful for determining the presence, absence or cc oligonucleotides are useful for determining the presence, absence or cc identity of a SNP and for genotyping nucleic acid samples, for e.g. to assess by association analysis the genotype of an individual or group of individuals, having a pathological phenotypic trait suspected of being caused by one or more SNPs. Phenotypic traits include diseases e.g. co agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, familial hypercholesterolaemia, polycystic kidney disease, costeogenesis imperfecta and acute intermittent porphyria. Phenotypic traits also include symptoms of or susceptibility to multifactorial diseases of which a component is or may be genetic such as autoimmune content, nearcer, nervous system diseases and infection by pathogenic microorganism. The method is also useful in forensic investigations and paternity analysis. The present sequence represents a single nucleotide primer extension (SNPE) primer specific for a human SNP containing DNA concern. Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide primer extension (SNPE) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPs. The present invention

Sequence 27 BP; 5 A; 8 C; 4 G; 9 T; 1 other;

Query Match
Best Local Similarity
Matches 16; Conserv Conservative 70.5%; Score 14.8; DB 22; Pred. No. 2.5e+03; 0; Mismatches 3; Length 27; 0, Gaps

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tches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lery Match
                                                                               AAQ69972 standard; cDNA; 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primers AAZ12359-Z12531 were used to amplify various open reading frames (ORFs) of Neisseria meningitidis and N. gonorrhoeae. These ORFs (AAZ11972-Z12358) encode antigenic proteins (AAX38499-Y38944). The antigenic proteins, their ragments, their nucleic acids and antibodies antigenic diagnosis, prevention (as vaccines) or treatment of vaccounts of the proteins of the proteins
AAQ69972;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 30 BP; 7 A; 10 C; 7 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Proteins from Neisseria meningitidis and N. gono diagnosis, treatment and prevention of infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        useful as hybridisation probes and antisense reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 489; 524pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-327407/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine; treatment; Neisseria infection; meningitis; septicaemia; gonorrh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Neisseria infections, such as meningitis, septicaemia and gonorrhea.
Both organisms are closely related. Pragments of the nucleic acids are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (CHIR-) CHIRON SPA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-SEP-1998;
06-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-MAY-1999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer used to amplify ORF83 of Neisseria species.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08-OCT-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
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                                                                                                                                                                                                                                                                                                                                                                                                 1 CAGCAGCAGAGTCTTCAT 18
                                                                                                                                                                                                                                                                                                            CAGCAGCAGGGTTTTCAT 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Masignani V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98WO-IB01665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -0026147
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      70.5%; Score 14.8; DB 20
88.9%; Pred. No. 2.5e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pizza
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                                                                                    쁑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>Z</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gonorrhoeae useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scarlato
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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RESULT 13
ABL61345/c
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Best Local S
                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                            AAQ69972 is a 5' primer corresponding to residues -26 to -20 of Canfi (AAR59987). It is used with AAQ69973 to amplify and sequence the 5'en of the Can fi cDNA. Peptides of the invention have the ability to induce a T cell response, which may include T cell stimulation or T cell nonresponsiveness. Some have the ability to bind the dog dander specific IgE of dog dander allergic subjects. These peptides are useful in diagnosing sensitivity to dog dander. Other peptides significantly reduce the ability to bind dog dander. Other peptides significantly reduce the ability to bind dog dander allergic IgE and AAR59987-60018 - these include primers, and probes for isolation of cDNA coding Can fi and fil allergens and peptides derived from the
          Naja naja atra
                                      Chinese cobra;
                                                                   Naja naja atra
                                                                                                                                                       ABL61345 standard; DNA; 24
                                                                                                13-SEP-2002
                                                                                                                             ABL61345;
                                                                                                                                                                                                                                                                                                                                            Sequence 31 BP; 7 A; 13 C; 5 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; Page 59; 124pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA encoding dog dander allergenic peptide(s) Can f I and (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1994-249215/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bizinkauskas CB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Canis familiaris; protein allergen; dog dander;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5'sense leader ex oligo primer to amplify 5' end Can fI cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-MAR-2003
13-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-DEC-1992;
22-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-JUL-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9416068-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (IMMU-) IMMULOGIC PHARM CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          agents;
                                                                                                                                                                                                                                                                                                                                                                         Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                             24 AGGAGCAGGGTCTTCATC 7
                                                                                                                                                                                                                                                           N
                                                                                                                                                                                                                                                                                                  1 70.5%;
Similarity 88.9%;
                                                                                                                                                                                                                                                        AGCAGCAGAGTCTTCATC 19
                                                                                                                                                                                                                                                                                       Conservative
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(first en
                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nse; stimulation; diagnosis; sensitivity; therapeu polymerase chain reaction; primer; amplification; disation; partial cDNA; degenerate; ss.
                                                                short chain neurotoxin-associated PCR primer
                                      neurotoxin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               92US-0999712.
93US-0156549.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          93WO-US12468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                       ВP
                                      cancer;
                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                   Score 14.8; DB 15;
Pred. No. 2.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Konieczny A,
                                                                                                                                                                                                                                                                                                  2.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Morgenstern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dog hair; allergy;
ivity; therapeutic;
                                                                                                                                                                                                                                                                                                               Length 31;
                                                                                                                                                                                                                                                                                     Indels
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ESULT 14
BK49118/c
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Best Local &
 The invention relates to an isolated polypeptide of human transcription factor LCR-F19.02 the cDNA encoding it, and
                                             Example 4; Page 18; 38pp; Chinese.
                                                                      Homo transcription factor F19.02 and encoding polynucleotide, used treatment of erythropathy -
                                                                                                                   WPI, 2002-351761/38.
                                                                                                                                                 Mao Y,
                                                                                                                                                                                                                                 25-JUN-2001; 2001WO-CN01053
                                                                                                                                                                                                                                                                                                                                        Human; 88; transcription factor; LCR-F19.02; erythropathy; PCR; primer.
                                                                                                                                                                        (SHAN-) SHANGHAI BIOWINDOW GENE
                                                                                                                                                                                                     28-JUN-2000; 2000CN-0116822.
                                                                                                                                                                                                                                                               14-MAR-2002.
                                                                                                                                                                                                                                                                                         WO200220583-A1.
                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                        Human transcription
                                                                                                                                                                                                                                                                                                                                                                                                       02-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                    ABK49118;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABK49118 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24 BP; 7 A; 5 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention describes a novel cobra short chain neurotoxin, the polynucleotide encoding the polypeptide and the method for producing polypeptide by means of recombination technology. The invention also discloses the method for curing several diseases, such as cancer, by using the cobra short chain neurotoxin, and a medicine composite
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        containing the cobra short chain neurotoxin. This PCR primer used in the amplification of the short described in the method of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Short-chain nervous cobra toxin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SHANGHAI BIOENGINEERING RES CENT CHINESE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 11; 30pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gong
                                                                                                                                                                                                                                                                                                                                                                     factor LCR-F19.02 PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   69.5%;
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ω
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.6; DB Pred. No. 3e+03;
                                                                                                                                                                          DBV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24;
  (HOMO)
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fragment,
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                                           Query Match
Best Local
                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
                                                                                                The present invention provides the protein and coding sequences of human plasmolemma regulation function-contained protein 70. The sequences can be used in the treatment of cancer and HIV infection. The present sequence is a PCR primer for the coding sequence of the invention.
                                                                             Sequence 34 BP; 5 A; 9 C; 9 G; 11 T;
                                                                                                                                                              Example 5; Page 15 (Disclosure); 27pp; Chinese.
                                                                                                                                                                                        Polypeptide-human protein 70 containing and polynucleotide for coding it
                                                                                                                                                                                                                                WPI; 2001-566050/64.
                                                                                                                                                                                                                                                        Mao Y,
                                                                                                                                                                                                                                                                                                          29-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                        11-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                  CN1302889-A.
                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                 29-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                            Plasmolemma regulation function-contained protein 70; cancer; HIV; infection; gene therapy; human; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plasmolemma regulation function-contained protein 70 cDNA PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH79384;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH79384 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   analogue or derivative. Also included are vectors expressing the protein, a host cell comprising the vector, the isolation of modulators of the protein and an anti-transcription factor LCR-F19.02 antibody. The protein and nucleic acid are used in diagnosis and treatment of erythropathy.
                                                                                                                                                                                                                                                                                  (BODA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence is a PCR primer used transcription factor LCR-F19.02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence
                                 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 CAGCAGCAGAGTCTTCATCAT 21
                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                BODAO
CAGCAGCAGAGTCTTCATCAT 21
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                              Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                GENE TECHNOLOGY
                                                                                                                                                                                                                                                                                                          99CN-0119927.
                                                                                                                                                                                                                                                                                                                               99CN-0119927.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                       69.5%;
81.0%;
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                                       Score 14.6; DB 22; Pred. No. 3.1e+03;
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Pred. No. 3.
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                                                                              0 other;
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3.1e+03;
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Search completed: November Job time: 252 secs

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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            oring table:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Issued_Patents_NA:*
1: /cgm2_6/ptodata/2
2: /cgm2_6/ptodata/2
3: /cgm2_6/ptodata/2
4: /cgm2_6/ptodata/2
5: /cgm2_6/ptodata/2
6: /cgm2_6/ptodata/2
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Gapop 10.0 , Gapext 1.0
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Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
/cgn2_6/ptodata/2/ina/5B_COMB.seq:*
/cgn2_6/ptodata/2/ina/6A_COMB.seq:*
/cgn2_6/ptodata/2/ina/6B_COMB.seq:*
/cgn2_6/ptodata/2/ina/BCTUS_COMB.seq:*
/cgn2_6/ptodata/2/ina/backfiles1.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length DB
                                                                          US-08-467-603-35
US-08-491-861A-35
US-08-491-861A-35
US-09-374-671A-35
US-09-110-959A-11
US-09-657-452A-163
US-09-657-452A-163
US-09-360-545-57
US-09-360-545-57
US-09-360-63-10
US-09-432-335-10
US-09-432-335-10
US-09-614-023-10
US-09-614-022-10
US-09-614-023-10
US-09-614-023-10
US-09-614-023-10
US-09-614-023-10
US-09-614-023-10
US-09-614-023-10
US-09-481-981A-54
US-08-466-793-54
US-08-466-793-54
US-08-491-861A-54
US-09-374-671A-54
US-09-489-085A-6
US-09-996-243-312
US-09-657-452A-162
US-08-373-124A-27
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                  Sequence 6
Patent No.
Sequence 3
Sequence 1
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                54, Appl
54, Appl
87, Appl
4550, Ap
6, Appli
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5, 5463174
312, App
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10, Appl
10, Appl
20, Appl
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3015, Appl
15, Appl
54, Appl
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35, Appl
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35, Appl
11, Appl
163, Appl
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US-09-410-935B-6
                                                                                                                                                                                                            Patent No.
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US-08-435-634-95	US-08-435-634-94	US-08-435-634-93	US-08-390-850-95	US-08-390-850-94	US-08-390-850-93	US-08-435-634-363	US-08-390-850-363	US-09-422-978-7130	US-09-422-978-626	US-09-614-022-26	US-09-432-335-26	US-09-130-663-26	US-08-343-443B-100	US-09-612-342-9	US-09-442-099A-9	US-09-205-860-28	US-08-435-628-27
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence						
95,	94	93,	95,	94,	93,	363	363	7130	626	26,	26,	26,	100	9	,	28,	27,
Appl	Appl	App1	App1	App1	App1	aa		o A			App1	״	day.	Appli	Appli	App1	App1

#### ALIGNMENTS

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CURRENT APPLICATION NUMBER: US/09/410,935B
CURRENT FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: US 60/107,201
PRIOR PILING DATE: 1998-11-05
PRIOR APPLICATION NUMBER: US 60/103,294
PRIOR PILING DATE: 1998-10-06
NUMBER OF SEQ ID NOS: 19
SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: DNA; ORGANISM: Artificial Sequence; PEATURE: ; OTHER INFORMATION: Gene specific primer 1 for Gos-2 US-09-410-935B-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Barbour, Bric
APPLICANT: EuClaire Meyer, Terry
APPLICANT: Eid Saad, Mohammed
TITLE OF INVENTION: No. 6504083el Maize Promoters
FILE REFERENCE: 5718-72
                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 6, Application US/09410935B Patent No. 6504083
                                                                                                                                                                                             GENERAL INFORMATION:
                  TITLE OF INVENTION:
  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                        1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                3 CAGCACCAGAGTCCTCAGCAT 23
                                                                                                                                                                                                                   , Application US/07885689A
5366876
                                                    Cho, Joong M.
Lee, Tae H.
Chung, Hyun H.
Lee, Yong B.
Lee, Tae G.
Park, Young W.
Han, Kyu B.
                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
Method for Production of Bovine Growth Hormone Using a Synthetic Gene. 38
                                                                                                                                                                                                                                                                                                                                                                                                                          77.1%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                          <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                            Score 16.2; DB 4; Length 32; Pred. No. 1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                   ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: 1..45
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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MEDIUM TYPE: Flappy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                               TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                   RRESPONDENCE ADDRESS:
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          COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                        STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: P.U. Junch
CITY: Falls Church
                                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 37:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE: 19-MA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ropology:
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                                                                                                        ITY: Boston
                                                                                                                                                                                                                                                                                                35, Application US/08467603
5. 5843672
                                                                                                                                                                                                                                                                                 INFORMATION:
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DEDNESS: single
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                                                                                                                       60 State Street, suite 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     45 base pairs
                                                                                USA
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       IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                       Brauer, Andrew W.
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                                                                                                                                                                                                                                                                  Morgenstern, Jay P.
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ASCII-text
                                                                                                                                     LAHIVE & COCKPIELD
                                      Ploppy disk
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                                                                                                                                                                            Allergenic Proteins and
Peptides from Dog
Dander and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                    73.3%; Score 15.4; DB 1; 94.1%; Pred. No. 2.5e+02;
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/note= "U7 oligonucleotide portion of synthetic
BGH gene, Pigure 1."
                                                                                                                                                                  104
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                                                                                                                                                                                                                                      Christine B.
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US-08-466-793-35/c
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No.
                                                       CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/156,54
FILING DATE: 22-NOV-1993
APPLICATION NUMBER: 07/999,712
FILING DATE: 31-Dec-92
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,793
                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
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LENGTH: 31 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,603
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ELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                   STREET: 60 St
CITY: Boston
                            NAME: Mandragouras, Amy E. REGISTRATION NUMBER: 36,20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: STRANDEDNESS: 811
                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                       MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-026CP(IPC-048CP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
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                                                                                                                                                                                                                                                                                                                                                                    60 State Street, suite 510
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                                                                                                                                                                                                                           ASCII-text
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                                                                                                                                                                          06-JUN-1995
                                                                                                                                                                                                                                                                     Ploppy disk
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                                                                                                                         US 08/156,549
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             IMI-026CP(IPC-048CP)
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Pred. No. 4.3e+02
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TELEPHONE:

(617) 227-7400

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24 AGGAGCAGGGTCTTCATC 7

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TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEPAX: (617) 742-4214
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
TYPE: nucleic acid
STRANDEDNESS: Single
                                               atches
                                                                           mery Match
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                STRANDEDNESS: SIT
TOPOLOGY: linear
MOLECULE TYPE: CDN
                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/999,712
FILING DATE: 31-Dec-92
                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
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                                                            Local
                                                                                                                                                                                                                                                              NAMB: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-026CF (IPC-048CF)
                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/491,861A
FILING DATE: 27-OCT-1995
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LE OF INVENTION: Allerge
LE OF INVENTION: Dander
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2 AGCAGCAGAGTCTTCATC 19
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                                                             Similarity
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5939283
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Similarity 88.9%;
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                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                               IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Floppy disk
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                                                       70.5%; Score 14.8;
88.9%; Pred. No. 4
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Dander and Uses Therefor
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Pred. No. 4
                                              Mismatches
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                                                       .3e+02
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                                                                     2; Length 31;
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                                           Indels
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JS-09-110-959A-11

Sequence 11, Application US/09110959A Patent No. 6268197

GENERAL INFORMATION:

APPLICANT: APPLICANT: APPLICANT:

Schulein, Marti Outtrup, Helle

Jorgensen, Per Lina Bjornvad, Mads Bskelund VENTION: Alkaline Xyloglucanase NCE: 5206.200-US

US/09/110,959A

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; SEQUENCE DESCRIPTION: SEQ ID NO: US-09-374-671A-35
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                    Query Match
Best Local Similarity
       Matches
                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tent No. 6489118
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/09/374,671A
PILING DATE: 16-Aug-1999
PRIOR APPLICATION NUMBER: US 08/156,549
PILING DATE: 1993-NOV-22
APPLICATION NUMBER: US 07/999,712
PILING DATE: 1992-DEC-31
ATTORNEY/AGENT INFORMATION:
NAME: DIGIOTGIO, NUMBER: 41,710
REFERENCE/DOCKET NUMBER: IMI-026C2CNCPA
                                                                                                              MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Allergenic Protein and Peptides from Dog
Dander and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Morgenstern, Jay P. Konieczny, Andrzej
                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS-DOS
                                                                                                                                                                                                                                            TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Boston
                                                                                                                                 TOPOLOGY: linear
                                                                                                                                                                                                                                                               TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 02109
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEB: Amy E. Mandragouras
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     Conservative
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                                                                                                                                                                                     31 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28 State Street
                   70.5%;
                                                                                                                                                                                                                                            742-4214
                   Score 14.8;
Pred. No. 4
                                                                                             35:
                    .3e+02
                                        DB 4;
                                  Length 31;
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Gaps
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SOFTWARE: F. SQ ID NO 11 LENGTH: 44
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19-657-452A-163
                                                                                                                                                                                                                                                                                                                                                                                            est Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/063,694
PRIOR FILING DATE: 1997-10-28
NUMBER OF SEQ ID NOS: 14
                                                                                                                                                                                                          NERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                         ery Match
OTHER INFORMATION: Antisense Oligonucleotide
9-657-452A-163
                                                                                                                                                                                                                                                                                                                                                                                                                                         9-205-860-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     quence 3, Applic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LT 8
19-205-860-3
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ORGANISM: Bacillus sp
                            PEATURE:
                                                                                                                                                                               PPLICANT: Brett P. Monia
PPLICANT: Jacqueline Wy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PPLICANT: Lex M. COWBERT
ITLE OF INVENTION: ANTISENSE MODULATION OF G-ALPHA-13 EXPRESSION
ILE REFERENCE: RTS-0031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NERAL INFORMATION:
                                          ORGANISM: Artificial Sequence
                                                                                                   JRRENT APPLICATION NUMBER: US/09/657,452A
JRRENT FILING DATE: 2000-09-07
JMBER OF SEQ ID NOS: 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: PCR Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q ID NO 3
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IMBER OF SEQ ID NOS: 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           URRENT APPLICATION NUMBER: US/09/205,860
                                                                          ENGTH:
                                                                                                                                                 TLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHORYLASE KINASE ALPHA 1 EXPRESSION
LE REFERENCE: RTS-0125
                                                                          ID NO 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
FILING DATE: 1997-1
APPLICATION NUMBER:
FILING DATE: 1997-0
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                                                                                                                                                                                                                                      163,
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                                                                                                                                                                                                                                                                                                                                             CAGCAGCAGAGTCTTCATC 19
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                                                                                                                                                                                                                                        Application US/09657452A
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84.2%;
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Pred. No. 7
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Pred. No. 5.6e+02
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                                                                                                                                                                                                                                                                                                                                                 US-09-130-663-10/c
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                                                                                       NUMBER OF SEQ ID NOS: 30
SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 10
                                                                                                                                                                                                                                                                   Patent No. 6020_
Patent No. 6020_
Patent INFORMATION:
                                                                                                                                                                                                                                                                                                         Sequence 10, Application US/09130663A Patent No. 6020163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
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SEQ ID NO 57
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Best Local (
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                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/130,663A CURRENT FILING DATE: 1998-08-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: wsur13885
CURRENT APPLICATION NUMBER: US/09/360,545
CURRENT FILING DATE: 1999-07-26
EARLIER APPLICATION NUMBER: 60/052,249
EARLIER FILING DATE: 1997-11-07
EARLIER APPLICATION NUMBER: PCT/US98/14528
EARLIER FILING DATE: 1998-07-10
                                                                                                                                                   EARLIER APPLICATION NUMBER: 60/054,867
EARLIER FILING DATE: 1997-08-06
                                                                                                                                                                                                                               APPLICANT: Conklin, Darrell C.
TITLE OF INVENTION: LIPOCALIN HOMOLOG
FILE REFERENCE: 97-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA
ORGANISM: Artificial Sequence
PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: misc feature
LOCATION: (1)...(24)
OTHER INFORMATION: Oligonucleotide that corresponds to the conserved
OTHER INFORMATION: amino acid sequence set forth in SEQ ID NO:46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial Sequence: OTHER INFORMATION: oligonucleotide corresponding to amino acid OTHER INFORMATION: sequence set forth in SEQ ID NO:46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Croteau, Rodney B
APPLICANT: Bohlmann, Jorg
APPLICANT: Steele, Christopher L
APPLICANT: Phillips, Michael A
APPLICANT: Phillips, Michael A
APPLICANT: Phillips, Michael A
OTHER INFORMATION: Oligonucleotide primer: ZC13270
                                 TYPE: DNA
ORGANISM: Artificial Sequence
                                                                             ENGTH: 30
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Similarity 84.2%;
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Pred. No. 7.
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Pred. No. 7
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-09-130-663-10

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lequence 20, App.
No. 62250
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09-254-023B-20
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SEQ ID NO 10
LENGTH: 30
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ARLIER FILING DATE: 1997-08-06
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Local
                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/254,023B
FILING DATE: 20-Apr-1999
CLASSIFICATION: <Unknown>
                                                                                                                      ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0,
                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: CHARACTERISING DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27
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                                                                                                                                                                                                                                       STATE: Virginia
              APPLICATION NUMBER: WO PCT/GB97/02403
FILING DATE: 05-SEP-1997
                                                                                                                                                                                                                        COUNTRY: United States
                                                                                                                                                                                                                                                       CITY: Alexandria
                                                                                                                                                                                                                                                                        STRBET:
                                                                                                                                                                                                                                                                                  DDRESSEB: Burns, Doane, Swecker & Mathis, LLP
PPLICATION NUMBER: GB 9618544.2
                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/09254023B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Application US/09432335
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                                                                                                                                                                                                                                                                     P.O. Box 1404
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LIPOCALIN HOMOLOG
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Pred. No. 8
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                                                                                                                       Version
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US-09-422-978-3015/c
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US-09-614-022-10
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                                                                                                                           Sequence 3015, Application US/09422978 Patent No. 6537751
                                                                                          GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
                                                                                                                                                                                                                                                                                                  Query Match
Best Local &
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                                     APPLICANT: Blumenfeld, Marta
APPLICANT: Chumakov, Ilya
TITLB OF INVENTION: Biallelic markers for use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patent No. 6365716
                           FILE REFERENCE: GENSET.020CP1
CURRENT APPLICATION NUMBER: US/09/422,978
CURRENT FILING DATE: 1999-10-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 1997-08-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/054,867
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                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
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SEQUENCE CHARACTERISTICS:
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MOLECULE TYPE: DNA (genomic)

SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 05-SEP-1996
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84.2%;
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Pred. No. 8e+02;
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                                       in constructing a high density..
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ARLIER APPLICATION NUMBER: US 09/298,850

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EARLIER FILING DATE: 1999-04-21
EARLIER APPLICATION NUMBER: US 60/109,732
EARLIER PILING DATE: 1998-11-23
EARLIER FILING DATE: 1998-11-23
EARLIER FILING DATE: 1998-04-21

SARLIER FILING DATE: 1998-04-21

SARLIER FILING DATE: 1998-04-21

SUMBER OF SEQ ID NOS: 11796

EQ ID NO 3015

LENGTH: 47

TYPE: DNA
ORGANISM: Homo Sapiens
PEATURE:
NAMB/KEY: allele
LOCATION: 24
OTHER INFORMATION: 99-21687-313: polymorphic base G or A
19-422-978-3015

10-422-978-3015

10-422-978-3015

10-422-978-3015

10-422-978-3015

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21
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2: /cgn2_6/ptodata/2/pubpna/PCT_i
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Copyright (c) 1993 - 2003 Compugen Ltd.
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6/ptodata/2/pubpna/US10Ā PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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112 112 112 112 113 114 114	1216	80
US-09-967-726A-15 US-10-080-794-15 US-10-208-255-6 US-10-007-010-43 US-09-944-326-1 US-09-944-326-2 US-09-967-726A-2 US-09-967-726A-2 US-09-967-726A-2 US-09-967-726A-2 US-10-080-794-1 US-10-080-794-2 US-10-080-794-2 US-10-196-107A-35 US-09-946-374-163	US-09-944-326-4 US-09-967-726A-4 US-10-080-794-4	ID
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RESULT 2 US-09-967-726A-4

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Sequence 4, Application US/09967726A

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63	6	1-163	3	-163	63	3	3	చ	63	163	163	5	163	163	63	163	63	163	163	1-163	63	163	<u>5</u>	63	5	163	163	163
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US-09-944-326-4

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; TYPE: DNA
; ORGANISM: HUMAN
; PEATURE:
; OTHER INFORMATION: antisense TRPM-2 ODN
US-09-944-326-4
                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver.
SEQ ID NO 4
LENGTH: 21
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/09/944,326
CURRENT FILING DATE: 2001-08-30
                                                                                                                                                                                                                                                                                                  PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/121,726
PRIOR FILING DATE: 1999-02-26
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Gleave, Martin
                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION:
                                                                     21;
CAGCAGCAGAGTCTTCATCAT 21
                                CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                       Rennie, Paul S.
Miyake, Hideaki
Nelson, Colleen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/09944326
                                                                     Conservative
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                                                               100.0%; Score 21; DB 10; Length 21; 100.0%; Pred. No. 1.6; 1ve 0; Mismatches 0; Indels
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JLT 4
39-967-726A-15
equence 15, Application US/09967726A
ablication No. US20030158130A1
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APPLICANT: Nelson, Colleen
APPLICANT: Nelson, Colleen
APPLICANT: Monia, Brett P.
TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
TITLE OF INVENTION: HAVING 2'-O-(2-METHOXY)ETHYL MODIFICATIONS
FILE REFERENCE: UBC.D-020-3
CURRENT APPLICATION NUMBER: US/10/080,794
CURRENT FILING DATE: 2002-02-22
CURRENT FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 09/913,325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EQ ID NO 4
LENGTH: 21
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ORGANISM: human
09-967-726A-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 09/944,326
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOPTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        equence 4, Application US/10080794
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SOPTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                          FEATURE:
OTHER INFORMATION: antisense TRPM-2 ODN
                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/967,726A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TITLE OF INVENTION: Oligonucleotides
FILE REFERENCE: UBC.P-022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Gleave, Martin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PPLICANT: Gleave, Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                  Local Similarity
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Miyake, Hideaki
Nelson, Colleen
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                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                      100.0%; Score 21; DB
100.0%; Pred. No. 1.6;
Live 0; Mismatches
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Sequence 6, App Publication No.

Application US/10278255 No. US20030097690A1

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; ORGANISM: HUMAN
US-10-080-794-15
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SEQ ID NO 15
LENGTH: 21
                                                                       Matches
                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 15, Application US/10080794
Publication No. US20030166591A1
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LENGTH: 21
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                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 09/913,325
PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: 09/944,326
PRIOR FILING DATE: 2001-08-30
                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/10/080,794
CURRENT FILING DATE: 2002-02-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Miyake, Hideaki
APPLICANT: Nelson, Colléen
APPLICANT: Zellweger, Tobias
TITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TITLE OF INVENTION: Oligonucleotides
FILE REFERENCE: UBC.P-022
                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/121,726
PRIOR FILING DATE: 1999-02-26
                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLECTIDE TITLE OF INVENTION: HAVING 2'-O-(2-METHOXY) ETHYL MODIFICATIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn version 3.1
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CURRENT FILING DATE: 2001-09-28
                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: UBC.P-020-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                      1 CAGCAGCAGAGTCTTCATCAT 21
                                                                   19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19;
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Miyake, Hideaki
Nelson, Colleen
Monia, Brett P.
CAGCAGCAGAGTATTATCAT 21
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                                                                                      84.8%;
90.5%;
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                                                                 ; Score 17.8; D; Pred. No. 53; 0; Mismatches
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Pred. No. 53;
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                                                                                                       DB 12;
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                                                                                                       Length 21;
                                                                     Indels
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-09-944-326-1
Sequence 1, Application US
Patent No. US20020128220A1
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Sequence 43, Application US/10007010
Publication No. US20030125275A1
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Gene specific primer 1 for Gos-2)-10-278-255-6
                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Antisense Oligonucleotide
-10-007-010-43
                                                                                                                                                                                                                                                                                                                                                                                                                                        EQ ID NO 43
                                                                                         APPLICANT: Gleave, Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPPLICANT: Kenneth W. Dobie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Alexander H. Borchers
                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
FRATURB:
                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JRRENT APPLICATION NUMBER: US/10/007,010
JRRENT FILING DATE: 2001-12-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LB REFERENCE: RTS-0345
                                                                                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/09/410,935
FILING DATE: 1999-10-04
APPLICATION NUMBER: US 60/107,201
FILING DATE: 1998-11-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OF INVENTION: No. US20030097690A1el Maize Promoters
REFERENCE: 5718-72
                                                                                                             INFORMATION:
                                                                                                                                                                                                                                                                                    16,
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                                                                                                                                        Application US/09944326
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                                           Rennie, Paul S.
Miyake, Hideaki
Nelson, Colleen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGCACCAGAGTCCTCAGCAT 23
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                                                                                                                                                                                                                                                                                   Conservative
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NUMBER: US/09/944,326
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                              TRPM-2 ANTISENSE THERAPY
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85.7%;
                                                                                                                                                                                                                                                                                              70.5%;
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Pred. No. 1.
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Pred. No. 3.
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RESULT 10
US-09-967-726A-1
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SEQ ID NO 1
; LENGTH: 21
; TYPE: DNA
ORGANISM: Murine
; FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: antisense TRPM-2 ODN US-09-944-326-1
                                                                GENERAL INFORMATION:
                                                                             Sequence 1, Application US/09967726A Publication No. US20030158130A1
                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                              Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 2
LENGTH: 21
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                                APPLICANT: Gleave, Martin
APPLICANT: Rennie, Paul (
                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 60/121,726
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 09/913,325
PRIOR FILING DATE: 2001-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: UBC.P-020-2
CURRENT APPLICATION NUMBER: US/09/944,326
CURRENT FILING DATE: 2001-08-30
                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: mismatch control
                                                                                                                                                                                                                                                                                                                                             ORGANISM: Murine FEATURE:
                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Match 70.5%;
Local Similarity 88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 09
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    Application US/09944326
    US20020128220A1

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Miyake, Hideaki
Nelson, Colleen
Miyake, Hideaki
Nelson, Colleen
                                                                                                                                                                            CAGCAGCAGGATCTTCAT 21
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Pred. No. 1.
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Pred. No. 1
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TITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense

ION: Oligonucleotides UBC.P-022

Zellweger,

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APPLICANT: Rennie, Paul S.
APPLICANT: Miyake, Hideaki
APPLICANT: Melson, Colleen
APPLICANT: Melson, Colleen
APPLICANT: Monia, Brett P.
TITLB OF INVENTION: TREM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
TITLB OF INVENTION: HAVING 2'-O-(2-METHOXY)ETHYL MODIFICATIONS
FILE REFERENCE: UBC.P-020-3
CURRENT APPLICATION NUMBER: US/10/080,794
CURRENT FILING DATE: 2001-02-22
PRIOR APPLICATION UNMBER: 60/121,726
PRIOR PILING DATE: 1999-02-26
PRIOR APPLICATION UNMBER: 09/913,325
PRIOR APPLICATION NUMBER: 09/913,325
PRIOR APPLICATION NUMBER: 09/914,326
PRIOR APPLICATION NUMBER: 09/944,326
PRIOR FILING DATE: 2001-08-30
PRIOR FILING DATE: 2001-08-30
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SOPTWARE: Patentin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  equence 2, Application US/09967726A ublication No. US20030158130A1
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TYPB: DNA
ORGANISM: human
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CURRENT FILING DATE: 2001-09-28
                                                                                                                                                                                                                                                                                                                                                                                equence 1, Application US/10080794 ublication No. US20030166591A1
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TITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TITLE OF INVENTION: Oligonucleotides
                                                                                                                                                                                                                                                                                                                                                              SNERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOPTWARB: PatentIn version 3.1
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TYPB: DNA
ORGANISM: human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
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Miyake, Hideaki
Nelson, Colleen
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Pred. No. 1.4e+03;
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; OTHER INFORMATION: mismatch control US-10-080-794-2
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                                                                                                                                                                                                                                   US-09-374-671-35/c
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SOPTWARE: PatentIn Ver.
SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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Publication No. US20030166591A1
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                                                                                                                                                                                                   Patent No.
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                                                                                                                                                                                                                    Sequence 35, Application US/09374671
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APPLICANT: Nelson, Colleen
APPLICANT: Nelson, Colleen
APPLICANT: Monia, Brett, P.
TITLE OF INVENTION: TREM-2 ANTISENSE THERAPY USING AN OLIGONUCLECTIDE
FITE OF INVENTION: HAVING 2'-O-(2-METHOXY)ETHYL MODIFICATIONS
FILE REFERENCE: UBC.P-020-3
CURRENT APPLICATION NUMBER: US/10/080,794
CURRENT FILING DATE: 2002-02-22
FRIOR APPLICATION NUMBER: 60/121,726
PRIOR FILING DATE: 1999-02-26
PRIOR FILING DATE: 1999-02-26
PRIOR FILING DATE: 2001-08-10
PRIOR FILING DATE: 2001-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 09/944,326 PRIOR FILING DATE: 2001-08-30
                                                                                                                                                                                  GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA
ORGANISM: Murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
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                                CORRESPONDENCE ADDRESS:
                                                     NUMBER OF SEQUENCES:
                                                                        TITLE OF INVENTION:
                                                                                                                              APPLICANT:
                                                                                                                                             APPLICANT:
                                                                                                                                                           APPLICANT: Morgenstern,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity hes 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                   l Similarity
16; Conserv
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28 State Street
                                                                                                       Brauer, Andrew W.
                                                                                                                        Kanieczny, Andrzey
Bizindaukas, Christine B.
                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                 LAHIVE & COCKFIELD, LLP
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                                                 Allergenic Proteins and Peptides from Dog
Dander and Uses Therefor
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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPAX: (617) 742-4214
NFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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STRANDEDNESS: single
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (617) 227-7400
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IOR APPLICATION DATA:
APPLICATION NUMBER: 08/491,861
PILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-026CP(IPC-048CP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII-text
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                                                                                                                           OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
                                                                                                                                                                               ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                            PRIOR
                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Lahive & Cockfield, LLP
                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Allergenic Protein and Peptides from Dog
Dander and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
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APPLICATION NUMBER: US 09/374,671
FILING DATE: 1999-AUG-16
APPLICATION NUMBER: US 08/491,861
FILING DATE: 1995-OCT-27
                                                                        APPLICATION NUMBER: US/10/196,107A FILING DATE: 16-Jul-2002 APPLICATION DATA:
                                                                                                                                                                                                                                                                     CITY: Boston
STATE: Massachusetts
                                                                                                                                                                                                                                                                                                             STREET: 28 State Street
                                                                                                                                                                                                                                                             COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Morgenstern, Jay P. Konieczny, Andrzej
                                                                                                                                                                                                                                                                                                                                                                                                                                         Bizindaukas, Christine B.
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Search completed: November 8, 2003, 04:48:00 Job time : 241 secs
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                                                                                                                                                  Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 35: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                        SEQUENCE DESCRIPTION: SEQ ID NO: 35:
                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                             MOLECULE TYPE: CDNA
                                                                         24 AGGAGCAGGGTCTTCATC 7
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                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Digiorgio, Jeanne M.
REGISTRATION NUMBER: 41,710
REFERENCE/DOCKET NUMBER: IMI-026C2CNCPADV
                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 07/999,712
FILING DATE: 1992-DEC-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 08/156,549 FILING DATE: 1993-NOV-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US93/12468
                                                                                                                                                                                                                                                                                                                                 JENGTH: 31 base pairs
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Listing first 45 summaries
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248.488 Million cell updates/sec
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            AW276802 xp66a01.x
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BF958934 PM1-NN120
AW901233 CM4-NN101
                                                                                        Description
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VERSION
KEYWORDS
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AW276802/c
LOCUS
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TITLE
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                                                                                                                                                                                                                                                                  ORGANISM
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Andrew Berchuck M.D., John Gillespie M.D.,
Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: David B. Krizman, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases 1 to 85)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                          AW276802 85 bp mRNA linear EST 03-JAN-2000 xp66a01.x1 NCI CGAP Ov39 Homo sapiens cDNA clone IMAGE:2745288 3' similar to gb:X14723 CLUSTERIN PRECURSOR (HUMAN);, mRNA sequence. AW276802
                                                                                                                                                                            Tumor Gene Index
                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                Homo sapiens (human)
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AL048592
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BF923639 MR4 - NT014
BG988974 HOA21-1-C
AA336628 BST41242
BE766870 RC2 - NT011
BF923643 MR4 - NT014
BF945175 PM1 - NN120
BC945410 MR4 - NT014
BF92363 MR4 - NT014
BF93107 PM1 - NN120
BF963107 PM1 - NN120
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BI032792 WR4-NN018
BF958930 PM1-NN120
BI036860 WR4-NT014
AI745406 wc37d11.x
BI036862 WR4-NT014
BF957665 PM1-NN120
BF957653 PM1-NN120
BF957858 PM1-NN120
BF957858 PM1-NN014
BF957858 PM1-NN014
BF957859 WR4-NT0014
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BF846357 PM1-EN006
R47195 CBS-389 Sub
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 (bases 1 to 100)
Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21;
                                                                                                             (http://www.ludwig.org.br/scripts/gethtml2.pl?ti=MR1&t2=MR1-NT0179-071100-003-f02&t3=2000-11-07&t4=1)
                                                                                                                                                                                                                                                                                      Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
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MR1-NT0179-071100-003-f02
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                                                                                                                                                                  Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer
                                                                                                                                                                                                                                                                                                                                                                                                                           Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Simpson, A.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Possible reversed clone: polyT not
Seq primer: -40UP from Gibco.
Location/Qualifiers
                                                                                                                                                  Project. This entry can be seen in the following
                                                                                                                                                                                                                                      Tel: +55-11-2704922
                                                                                                                                                                                                                                                                                                                                                                                                             sequence tags
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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                                                                                               primer: puc 18 forward
                                                                                                                                                                                                                                                                    Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                         quality sequence start: 11 quality sequence stop: 100.
                                                                                                                                                                                                                 +55-11-2707001
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                                                                                                                                                                                                                                                                                                                                                                                        Natl. Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Soares, F., Brentani, R.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pAMP10. Size-selected on agarose gel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          size 500 bp. Primary library, non-amplified. CD Library Preparation: David B. Krizman, Ph.D (NCI).
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21 c
/organism="Homo sapiens"
                                    Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /clone lib="NCI_CGAP_Ov39"
/note="Organ: ovary; Vector: pAMP10; cDNA made b
priming. Non-directionally cloned into the UDG
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ab_host="DH10B"
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Pred. No. 29;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PUBMED
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1 (bases 1 to 102)

Dias Neto, B., García Correa, R., Verjovski-Almeida, S., Briones, M.R., Magai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.P., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Sares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
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                                                                                                                                                                                                                                                                                                         Seq primer: puc 18 forward
                                                                                                                                                                                                                                                                                                                                                                                 Email: asimpson@ludwig.org.br
This sequence was derived from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rua Prof. Antonio Prudente 109,
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                                                                                                                                                                                                                                                                                                                                             Inls sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-NN1200-
                                                                                                                                                                                                                                                                                                                                                                                                                                       Fax: +55-11-2707001
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tel: +55-11-2704922
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                                                                        Site
      profiles
                                                                                                                                /mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
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34 c 20 g 25 t
                           derived from 
No. 196,716 -
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                                                                                       note="Organ:
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nervous normal; Vector: pucl8; Site 1: SmaI; A mini-library was made by cloning products ORESTES PCR (U.S. Letters Patent application Ludwig Institute for Cancer Research) the pUC 18 vector. Reverse transcription of
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                                                                                                                                                                                                                                                                                                                                               1 the following URL
/gethtml2.pl?tl=PM1&t2=PM1-NN1200-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=CM4-NN1011-100
300-110-g04&t3=2000-03-10&t4=1)
Seq primer: puc 18 forward
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
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Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,
Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare,
M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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                    100.0%; Score 21; DB 10; Length 119; llarity 100.0%; Pred. No. 34; Conservative 0; Mismatches 0; Indels
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                                                                                                                    /note=Torgan: nervous normal; Vector: puc18; Site 1: SmaI; Site 2: SmaI, A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           low stringency conditions.*
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Korea Research Institute of Bioscience & Biotechnology 52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea Tel: +82-42-860-4470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unpublished
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21C Frontier Korean EST Project 2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases 1 to 124)

Kim,N.S., Hahn;Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R
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Plate: 15 row: H column: 01
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kim, N.S.,
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K-EST0099952 S20T665307 Homo sapiens cDNA clone S20T665307-15-H01
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                                                                                                                                                                                                                                                                 /clone="Cryan: Stomach; Vector: pCNS; Site 1: EcoRI; /note="Cryan: Stomach; Vector: pCNS; Site 1: EcoRI; /note="Cryan: Stomach; Vector: pCNS; Site 1: EcoRI; Site 2: NoII; The poly (A) + RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tabacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA, RNA linker including EcoR I site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dT-selected mRNA by priming with dT-tailed vector. The dT-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with B. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Odayama-Berg method. The obtained cDNA vectors were used for transformation of competent cells E. coli T0910F' by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."
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BQ339862 138 bp mRNA linear PM1-NN1200-011200-010-£07 NN1200 Homo sapiens cDNA,

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                 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butele Mammalla; Butherla; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 142)
                                                                                     Homo sapiens
                                                                                                                                                                                   HUMHG1194 Human cerebral
                                                                                                    Homo sapiens (human)
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This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-NN1200-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Ludwig Institute for Cancer 109, 4 anc
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Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F. F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, P., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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                                                                                                                                               GI:1136645
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mol_type="mRNA"
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                                                                                                                                               This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-NN1200-051100-004-h12&t3=2000-11-05&t4=1)
                                                                                                                                                                                                                                                                                                    Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Ludwig Prof. Antonio Prudente 109, 4 andar,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 147)
1 (bases 1 to 147)
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Costa, F.F.,
                                                                                                                                     Seq primer: puc 18 forward
                                                                                                                                                                                                                          Email: asimpson@ludwig.org.br
                                                                                                                                                                                                                                                                        Tel: +55-11-2704922
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Shotgun sequencing of the human transcriptome with ORF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Cósta, F.F., Goldman, G. H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., deoliveira, F.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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PM1-NN1200-051100-004-h12 NN1200 Homo
BQ339466 BQ339466.1 GI:20999152
EST.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Nobuaki Takahashi
Institute of Medical Science
                                                                                                                                                                                                                                                                                                                                                                                                                           Proc. Natl.
                                                                                                                                                                                                                                                                                                                                                                                                                                           sequence tags
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Tel: 03-5449-5625
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                                                                                             quality sequence start: 14 quality sequence stop: 34.
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organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                           Location/Qualifiers
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/note="Adult male cerebral cortex tissue."
31 c 55 g 30 t
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/mol_type="mRNA"
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                                                                                                                                                                                                                                                                                                                        This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtm12.pl?tl=PM1&t2=PM1-EN0065-231000-002-b01&t3=2000-10-23&t4=1)
Seq primer: puc 18 forward
High quality sequence stop: 110.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 148)
Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Nagsi, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.P.,
Goldman, G.H., Carvalho, A.P., Matsukuma, A., Baia, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare,
M.J., Soares, P., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tel: +55-11-2704922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shotgun sequencing of the human transcriptome with ORF sequence tags
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: asimpson@ludwig.org.br
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthoria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               +55-11-2707001
       24
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                                                           /note-Worgan: lung_normal; Vector: puc18; Site_1: SmaI; Site_2: SmaI, A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under low stringency conditions."

56 c 41 g 27 t
                                                                                                                                                                                                                 /db_xref="taxon:9606"
/dev_stage="Adult"
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/note="Organ: nervous normal; Vector: puc18; Site_1: Smal;
/note="Organ: nervous normal; Vector: puc18; Site_1: Smal;
Site_2: Smal; A mini-Tibrary was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
NO. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
                                                                                                                                                                                          clone_lib="EN0065"
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46 c 28 g 38 t
                                                                                                                                                                                                                                                                  type="mRNA"
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DEFINITION ACCESSION

BE766895 169 bp mRNA linear RC2-NT0110-050600-013-f03 NT0110 Homo sapiens cDNA, BE766895 GI:10196819 EST.

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                                                                                                       1 CAGCAGCAGAGTCTTCATCAT 21
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CBS-389 Subtractive cDNA library ocular ciliary body Homo sapiens cDNA clone CBS-389 5' end similar to TRPM-2 (clusterin) (accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seq primer:
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1 (bases 1 to 149)

Escribano, J., Ortego, J. and Coca-Prados, M.

Isolation and characterization of cell-specific cDNA clones from subtractive library of the ocular cillary body of a single normal human donor: Transcription and synthesis of plasma proteins J. Blochem. 118 (5), 921-931 (1995)
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                                                                                                                                                             Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tel: 2037852742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      330 Cedar Street, New Haven,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Department of Ophthalmology and Visual Science
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Coca-Prados, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
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                                                                                                                                                                                                                      /clone lib=Subtractive cDNA library ocular ciliary body"
/note=Tyector: pBluescript II SK; Site 1: EcoRI; Site 2:
XhoI; A subtractive cDNA library was developed by
hybridizing antisense, single-stranded phagemid DNA (ssDNA)
(as pBluescript SK-) from the ocular ciliary body cDNA
library (target) of a 34-year-old female donor in
lambda-Uni-ZAP XR with biotinylated sense RNA of an ocular
cell line cDNA library (driver) in the same vector."

3 1 c 56 g 29 t
                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/mol type="mRNA"
/db_xref="taxon:9606"
/clone="CBS-389"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     _coca-prados@quickmail.yale.edu
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                                   Eukaryota; Metazoa; Chordata; Crai
Mammalia; Eutheria; Primates; Cato
1 (Dases 1 to 177)
Poustka,A., Klein,M., Mewes,H.W.,
                                                                                                                                                                                                                             DKFZp586H092_r1 586 (synonym: DKFZp586H092, mRNA sequence.
                                                                                                                                                                                                                                                                      AL048592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human
Project. This entry can be seen in the following URL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mammalia; Eutheria;
1 (bases 1 to 169)
Dias Neto, B., Garci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (http://www.ludwig.org.br/scripts/gethtml2.pl?ti=&t2=RC2-NT0110-050
600-013-f03&t3=2000-06-05&t4=1)
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                                                                                                                          Homo sapiens
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Ludwig Institute for Cancer Research
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                 (Poustka, et al.)
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[larity 100.0%;
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/clone lib="NTO110"
/note="Organ: nervous tumor; Vector: puc18; Site_1: SmaI;
/note="Organ: A mini-Tibrary was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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a Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
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                                                                                                             Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Ludwig Truck Prudente 109, 4 and
                                                                                                                                                                                                                                                                                                          1 (bases 1 to 183)
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                      This sequence was derived
                                                                                                                                                                                                                                                                        Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                Simpson, A.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (human)
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Location/Qualifiers
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This clone (DKF2p586H092) is available at the RZPD in Berlin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Clone from S. Wiemann, Molecular Genome Analysis, German Can-
Research Center (DKPZ); Email s.wiemann@dkfz- heidelberg.de;
sequenced by DKFZ (German Cancer Research Center,
Heidelberg/Germany) within the cDNA sequencing consortium of
                                      Email: asimpson@ludwig.org.br
                                                            Fax: +55-11-2707001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BI032792
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This is the 5' sequence of the clone inse
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                                                                               Tel: +55-11-2704922
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/tissue_type="uterus"
/dev_stage="adult"
/lab_host="DH10B"
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/note="Vector: pSport1; Site_1: NotI; Site_2: SalI/MluI"
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/db_xref="taxon:9606"
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was derived from the FAPESP/LICR Human entry can be seen in the following URL
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Best Local (
                                                                                                           Seq primer: puc 18 forward
High quality sequence stars
High quality sequence stop
                                                                                                                                                                     This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-NN1200-011200-009-g08&t3=2000-12-01&t4=1)
                                                                                                                                                                                                                                                                                                                                 Contact: Simpson A.J.G.
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BF958930 184 bp mRNA linear EST 22-JAN-200 PM1-NN1200-011200-009-g08 NN1200 Homo sapiens cDNA, mRNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sequence tags
Proc. Natl. Acad. Sci. U.S.A.
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                                                                                                                                                                                                                                                                  Email: asimpson@ludwig.org.br
                                                                                                                                                                                                                                                                                                                 fel: +55-11-2704922
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200101-204-e01&t3=2001-01-22&t4=1)
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                                                                                 quality sequence start: 7 quality sequence stop: 184. Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="mRNA"
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ne_lib="NN0188"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tel: +55-1-2707001

Fax: +55-1-2707001

Email: asimpsomeludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome

This sequence was derived from the following URL

This makes entry can be seen in the following URL

This makes entry can be seen in the following URL
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Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010,
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                                                                                                                          /organism="Homo sapiens"
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/dev_stage="Adult"
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/note="Organ: nervous normal; Vector: pucl8; Site_1: SmaI;
Site_2: SmaI; A mini-library was made by cloning products
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No. 196,716 - Ludwig Institute for Cancer Research)
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